

CONTENTS

	PAGE	RUSS. PAGE
On Securing Laboratory Machines for Mechanical Testing. <u>Iu. N. Morozov</u>	1	3
Chemical Methods of Analysis		
A Method for the Determination of Germanium in Ores, Coal, and Industrial Wastes. <u>V. A. Nazarenko, N. V. Lebedeva and R. V. Ravitskaia</u>	6	9
Complexometric Determination of Thorium Using 1-(2-Pyridylazo)-2-Naphthol as Indicator. <u>A. I. Busev, L. V. Kiseleva and A. I. Cherkesov</u>	10	13
A Photocolorimetric Method of Determining Bismuth in Tin. <u>M. I. Shvaiger, V. P. Paklina and A. S. Medvedeva</u>	13	16
A Rapid Method for the Determination of Copper, Lead and Zinc in Polymetallic Ores and their Enrichment Products. <u>S. Iu. Fainberg, A. A. Blaikhman and L. N. Filatova</u>	15	18
Separation of Zinc and Cobalt. <u>Iu. V. Morachevskii and Z. S. Bashun</u>	17	20
A New Color Reaction for Detecting and Determining Beryllium by Means of Chromeblue K. <u>L. P. Kalinchenko, N. P. Strakhov and I. I. Kalinichenko</u>	19	22
Acid Chrome-Dark-Blue and Acid Chromeblue K as Indicators for Trilonometric Determination of Calcium. <u>T. B. Stiunkel' and E. M. Iakimets</u>	20	23
The Trilonometric Determination of Iron in Ores and Agglomerates. <u>N. G. Fesenko</u>	22	25
Colorimetric Determination of the Iron Carbide Content of Steel. <u>N. M. Popova and L. V. Zaslavskaja</u>	23	26
Ultramicroanalysis. <u>I. P. Alimarin and M. N. Petrikova</u>	26	29
Brief Communications	30	32
Physical Methods of Investigation		
Apparatus and Methods for Investigation of the Physicochemical Properties of Substances in the Solid and Liquid States. <u>D. A. Petrov and V. M. Glazov</u>	32	34
Thermoelectric Method of Determining the Carbon Content of Steel During the Fining Process. <u>P. D. Korzh and A. P. Ershova</u>	39	41
Determination of Inclusions of Sulfur in Electrodeposited Coatings of Nickel and Copper by a Radiochemical Method. <u>A. A. Sutiagina</u>	41	43
Refractometric Analysis in the Control of the Manufacture of Carbon Disulfide. <u>R. M. Levit and Ia. Z. Sorokin</u>	43	45
Application of Long Focal Distances to an X-Ray Method for the Determination of Residual Stress. <u>B. A. Brusilovskii</u>	46	48

	PAGE	RUSS. PAGE
A New Method of Determining the Degree of Blackness of Solid Bodies. <u>V. S. Kocho</u>	51	53
Methods of Investigating the Mechanism of the Conversion of Pearlite into Austenite at Increased and High Rates of Heating. <u>G. T. Fomin</u>	54	56
Electropolishing and Electroetching of Metallographic Sections of Metalloceramic Materials with an Iron Copper Basis. <u>O. K. Teodorovich and E. T. Kachkovskaya</u>	56	57
Electrolytic Separation of Martensite and Austenite from Hardened Steel. <u>V. D. Zelenova</u>	58	60
Microstructural Investigation of Phase Transformations in Metalloceramic Systems on Heating. <u>Ia. G. Davidovich and K. V. Kononova</u>	60	62
Determination of the Cooling Power of Fused Salt. <u>D. Ia. Vishniakov and A. A. Neustruev</u>	62	63
The Problem of a Criterion for Determining the Thickness of the Carburized Layer. <u>E. G. Perel'man</u>	63	65
Mechanical Methods of Testing		
Comparison of the Static Load and Subsonic Methods of Determining the Modulus of Elasticity of Sheet Materials. <u>S. O. Tsobkallo and Z. A. Vashchenko</u>	66	68
Measuring the Modulus of Elasticity of Spring Alloys Using Thin Specimens. <u>A. K. Borisova and V. A. Sol'ts</u>	68	70
A Ball Test Which is Independent of the Conditions of Testing. <u>M. S. Drozd</u>	72	74
A New Method for Studying the Deformation of Metal. <u>N. P. Skriabin</u>	82	82
The Significance of the Relative Cross-Sectional Dimensions of a Flat Specimen in Assessing the Ductile Properties of Low-Carbon Steel. <u>I. P. Obozov and V. V. Shevelev</u>	83	84
Experimental Determination of Dynamic Loads on the Teeth of Straight Spur Gears. <u>V. G. Pestov</u>	85	85
A Method for Determining the Wear of Rolling-Mill Rolls. <u>V. N. Vydrin, P. N. Amosov and L. D. Kossovskii</u>	87	88
On the Determination of the Impact Splitting Resistance of Wood in the Direction of the Grain. <u>S. Ionaitis</u>	88	89
Form of Specimens for Fatigue Testing of Hardened Steels. <u>I. E. Kolosov</u>	90	90
Apparatus and Technique of Laboratory Work		
A Simplified Electrostatic Electron Microscope. <u>V. I. Miliutin, D. V. Fetisov, K. K. Raspletin, F. U. Spektor and B. I. Pochtarev</u>	92	92
Checking the Quality of Heat-Treatment of Steel Parts Using the Magnetic Permeability at Medium Fields. <u>A. M. El'gard and S. K. Ginzburg</u>	96	96
An Apparatus for Studying the Damping of Oscillations in Metals. <u>M. I. Kurmanov, I. V. Navrotskii and Zh. F. Ianushevskaya</u>	100	101
A High-Temperature Evacuated X-Ray Camera with a Continuously Rotating Specimen. <u>A. V. Progrushchenko</u>	102	104
A Device for High-Temperature X-Ray Photography. <u>E. I. Gindin and V. G. Prokhvatilov</u>	103	106
A Simple Device for X-Ray Studies on Single Crystals at High Temperatures. <u>Iu. P. Simanov, V. S. Burov and K. N. Semenenko</u>	105	107

CONTENTS (continued)

	PAGE	RUSS. PAGE
A Device for Photographing the Surfaces of Cylindrical Metal Specimens Used for Corrosion Tests. <u>S. N. Alekseev</u>	105	108
A Fluorescence Leak-Detection Method for Electrical Vacuum Equipment. <u>B. I. Korolev</u> and <u>A. A. Bystrov</u>	107	109
Use of Halogen Leak Detectors in Electric Furnace Construction. <u>E. N. Marmer and E. E. Khazanov</u>	108	110
A Reagent for Electrolytic Polishing of Chrome-Nickel Austenitic Alloys. <u>Iu. B. Malevskii</u>	109	111
A Rotating Fitting for the MIM-7 Metallurgical Microscope. <u>V. S. Ermakov</u>	110	112
The Use of Celluloid Strips Instead of Glass Slides in Examining Dust Samples Under the Microscope. <u>V. N. Shilenkov</u>	111	113
The Technique of Applying Fine Grids to Determine Strains in Models. <u>Iu. V. Kostylev</u> and <u>G. A. Batranina</u>	111	114
A Machine for Testing Wire Rope in Fatigue Using an Asymmetric Cycle. <u>M. S. Bel'mes</u>	114	117
Power Dynamometers Using Strain Gages. <u>P. I. Puzyr'kov</u>	116	119
An Apparatus for Determining the Mechanical Properties of Lead Alloys at Elevated Temperatures. <u>N. M. Rudnitskii</u>	117	120
A Method for Calculating the Debye Patterns of Cubic Crystals by Means of a Slide Rule. <u>Iu. A. Bagariatskii</u>	119	121
Foreign Automatic Gas Analysers Based on the Chromatographic Method of Analysis. <u>E. P. Fesenko</u>	120	123

CONTENTS

	PAGE	RUSS. PAGE
Chemical Methods of Analysis		
Determination of Copper Using Lead Carbamate. <u>S. E. Kreimer and L. P. Butylkin</u>	127	131
Determination of Antimony in Lead of High Purity. <u>Iu. Iu. Lur'e and T. V. Zaglodina</u>	130	133
Amperometric Determination of Molybdenum and Tungsten in the Presence of Nickel. <u>A. K. Babko and A. I. Volkova</u>	132	135
Amperometric Titration of Cobalt With Potassium Ferricyanide in an Apparatus with a Rotating Platinum Microelectrode. <u>A. K. Zhdanov, V. A. Khadeev and G. P. Moiseeva</u>	135	137
Amperometric Determination of Cobalt in Magnetic Alloys. <u>V. F. Toropova and O. S. Strekalova</u>	138	140
Phase Analysis of Complex Titanium Alloys. <u>N. I. Blok, A. I. Glazova, G. M. Kokhova and N. F. Lashko</u>	140	141
Colorimetric Determination of Titanium in Alloy Steels by the Method of Additions. <u>A. I. Lazarev and V. I. Lazareva</u>	144	145
Determination of Magnesium in the Presence of Aluminum. <u>M. V. Liberman</u>	146	147
Rapid Method of Determining Magnesium in Alloys of Mg + FeSi. <u>A. V. Evko</u>	147	147
High-Frequency Apparatus for Physicochemical Investigation and its Uses. <u>V. A. Zarinskii and I. R. Mandel'berg</u>	149	148
Methods of Determining Sulfate Contamination in Phosphate Solutions. <u>G. V. Zavarov</u>	154	153
A Potentiometric Method of Determining Acrylonitrile by Means of Sodium Sulfite. <u>A. P. Terent'ev, S. I. Obtemperanskaia and M. M. Buzlanova</u>	158	157
Determination of the Concentration of "Miscells." <u>A. L. Markman and V. I. Kriventsov</u>	159	158
Development of Amperometric Titration Methods. (A Review). <u>O. A. Songina</u>	161	160
Physical Methods of Investigation		
Microchemical Method for Investigating the Corrosion of Metal Under Stress. <u>A. V. Rlabchenkov, V. M. Nikiforova and V. F. Abramova</u>	171	167
Capacity Method of Determining the Thickness and Continuity of Paint Coatings on Metals. <u>I. L. Rozenfel'd and Iu. P. Ol'khovnikov</u>	178	173
Ultrasonic Control of the Adhesion of Babbitt to the Base of Sectional Bushes and Large Bearings. <u>L. M. Iablonik</u>	181	176

CONTENTS (continued)

	PAGE	RUSS. PAGE
Method of Controlling the State of Oxidation of Coal. <u>V. S. Veselovskii, E. A. Terpogosova and N. D. Alekseeva</u>	184	179
Characteristic of the Degree of Heat-Treatment of Semicoke. <u>B. A. Onusaitis and N. I. Kozlova</u>	187	181
Method of Fractional Analysis of Coal by Means of a Centrifuge. <u>L. G. Demidov</u>	190	183
Rapid Method of Determining the Mechanical Strength of Granules. <u>M. B. Frenkel'</u>	192	184
Dispersion Analysis of Highly Disperse Powders by Means of an Ultracentrifuge. <u>N. N. Tsiurupa and A. I. Shutova</u>	193	185
Simplified Method of Determining the Moisture Content of Materials Used in Welding. <u>V. M. Shpeizman and E. A. Krasovskaya</u>	196	187
Method of Measuring the Densities of Liquids and Their Vapors at Elevated Temperatures and Pressures. <u>A. P. Gritsenko</u>	198	188
Determination of the Molecular Weights of Dissolved Substances by the Method of Diffusion through Porous Glass Plates. <u>A. I. Grigor'ev, A. V. Novoselova and K. N. Semenenko</u>	200	190
Brief Communications	203	192
Mechanical Methods of Testing		
Fatigue Testing Methods for Large High-Pitch Spur Gears. <u>M. M. Kobrin and G. Z. Zaitsev.</u>	204	193
The Brittleness of Steel Produced During Testing and the Means of Revealing It. <u>K. M. Pogodina-Alekseeva and G. I. Pogodin-Alekseev</u>	209	198
A New Method for Testing The Resistance to Thermal Shock of Heat-Resistant Sheet Materials. <u>M. Ia. L'vovskii and I. A. Smilian</u>	213	202
A Method of Determining the Resistance to Thermal Shock of Sheet Steels and Alloys. <u>V. M. Pridantsev and A. R. Krylova</u>	216	204
Some Improvements in the Measurement of Deformations for the Determination of Residual Stresses in Thin-Walled Rings (Tubes). <u>G. A. Deriagin</u>	219	206
On the Technique of Preparing Austenitic Steel and Weld Specimens for the Investigation of Gamma to Sigma Phase Change. <u>B. I. Medovar and Iu. B. Malevskii</u>	222	208
Method of Testing Nonrotating Wire Hoisting Ropes. <u>M. F. Glushko</u>	225	211
Instruments and Laboratory Technique		
New Photoelectric Colorimeter FEK-56. <u>I. I. Lukin</u>	228	214
The Use of Nephelometers for Studying Aerosols. <u>Ia. I. Kogan</u>	230	215
A Combined Electrode For Potentiometric Microtitration. <u>L. N. Lomakina and P. K. Agasian</u>	234	219
A Dampener With an Air Thermostat. <u>V. I. Zykov and E. V. Makarova</u>	235	220
A Technique for Measuring Out Pyrophoric Catalysts. <u>S. L. Kiperman and I. R. Davydova</u>	237	221
An Apparatus for Recording the Curve of Distillation. <u>D. D. Zykov, I. A. Lytkin, G. V. Sobolev and V. V. Khlebnikova</u>	238	222
Accessories for Laboratory Analytical Work. <u>P. N. Tereshchenko</u>	240	223

CONTENTS (continued)

	PAGE	RUSS. PAGE
Machine for Testing Wear in Reciprocating Motion. <u>V. P. Berlad and G. V. Likhnietskii</u> . . .	242	225
Attachments for the Creep Testing of Metals in Working Media. <u>V. N. Gul'iaev and A. V. Ratner</u>	244	226
Attachment for Determining the Fatigue Strength of a Metal in Active Liquid Media. <u>A. I. Iatsiuk, V. T. Stepurenko and F. P. Ianchishin</u>	247	229
Device for Studying the Dynamic Stability of Rods. <u>V. A. Sobolev</u>	249	230
Fabrication of Complex Models for Optical Stress Investigations. <u>T. D. Maksutova and S. P. Shikhobalov</u>	250	231
Testing Machines of Foreign Manufacture with Electronic Dynamometers. <u>Kh. N. Dement'ev</u>	253	233
An Automatic Instrument for Determining the Permeability by Water of Various Materials. <u>A. S. Panin</u>	256	236
Use of a Centrifuge for Sample Preparation. <u>Iu. K. Popialkovskii</u>	259	239
The Use of a Conical Plastometer for Controlling the Quality of Mixtures of Carbon Compositions. <u>A. S. Flalkov and Ia. G. Davidovich</u>	261	241
A Laboratory Apparatus for Determining the Frost Resistance of High-Polymer Films. <u>A. A. Benediktova</u>	264	243
A Device for Measuring Stress in Electrodeposits. <u>L. A. Frumer and N. M. Chistov</u>	266	244
An Electronic Regulator of the Rate of Heating. <u>L. N. Potekhin</u>	268	245
Apparatus for Determination of Moisture Content in Liquid Carbon Dioxide. <u>M. G. Kaganev and L. I. Glebova</u>	270	247
Trap for a Debye (Powder) Camera. <u>Iu. I. Sozin</u>	272	248
Brief Communications	273	248
Information		
New Machines for Testing the Endurance of Metals by the Plain Bending of a Rotating Specimen. <u>B. A. Avdeev</u>	277	252
The Determination of Copper, Bismuth, Tin, Antimony, Arsenic and Lead in Ferro-tungsten. <u>N. M. Kostianovskaia and M. V. Babaev</u>	280	254
Reagent for the Determination of Lead - "Plumbon Irea"	282	256
At the Institute of Structural Engineering of the Academy of Sciences of the Ukrainian SSR	283	256

CONTENTS

	PAGE	RUSS. PAGE
Chemical Methods of Analysis		
Analytical Uses of Phenolcarboxylic Acids of the Triphenylmethane Series. Determination of Beryllium in Rocks, Minerals and Alloys. <u>I.S. Mustafin and L.O. Matveev</u>	285	259
Determination of Cobalt and Cadmium in High-Purity Nickel. <u>S.E. Kreimer, N.V. Tuzhili-na, V.A. Golovina and R.A. Tlabina</u>	289	262
A Colorimetric Method of Determining Copper in Nickel Electrolytes. <u>A.I. Busev, M.I. Ivanlutin and E.M. Feigina</u>	292	265
The Trilonometric Determination of Nickel in Alloy Copper without Separation of the Latter. <u>I.I. Kalinichenko</u>	294	266
The Volumetric Vanadatometric Determination of Gallium. <u>S.Ia. Vinkovetskaia and V.A. Nazarenko</u>	296	268
The Micropotentiometric Determination of Silver Using Triazoles. <u>L.N. Lomakina, N.I. Tarasevich and P.K. Agaslan</u>	300	270
The Amperometric Determination of Chloride Ion in Solutions of Copper and Zinc Sulfates. <u>O.A. Songina</u>	304	273
The Colorimetric Determination of Selenium and Tellurium in Dusts from Lead Manufac-ture. <u>V.P. Gladyshev</u>	306	275
The Determination of Indium in Sphalerite Concentrates by Amperometric Titration with Complexone. <u>B.S. Tsyvina and V.M. Vladimirova</u>	310	278
The Decomposition and Analysis of Chromic Oxide. <u>V.G. Shcherbakov and R.M. Veitsman</u>	312	280
The Radiometric Titration of Zinc and Cadmium Using Potassium Ferrocyanide. <u>I.M. Gi-balo and V.M. Byr'ko</u>	314	281
A More Rapid Method for the Analysis of Mixtures Containing Ammonia and Methylamines. <u>N.F. Alekseev, L.G. Iakobson, M.P. Dvinianina and N.N. Lavrent'eva</u>	317	283
The Determination of Chlorine in Organosilicon Compounds. <u>S.V. Slavtsillo, V.T. Shemia-tenkova and A.M. Neshumova</u>	322	287
The Determination of Petroleum Products in Drainage Water by a Pycnometric Method. <u>Ia.I. Nel'kenbaum</u>	325	289
The Quantitative Determination of Benzanthrone in Air. <u>I.B. Kogan</u>	328	291
Physical Methods of Investigation		
The Determination of the Range and the Standardization of the Sensitivity of an Ultrasonic Defectoscope. <u>A.A. Kulik</u>	331	294

	PAGE	RUSS. PAGE
Development of a Method of Cleaning the Surface of Metals Under a Solution for the Investigation of Passivity Phenomena. <u>N.D. Tomashov, G.P. Chernova, R.M. Al'tovskii and G.K. Blinchevskii.</u>	336	299
Determination of the Electrical Conductivity of Oxide Films on Aluminum in a Damp Atmosphere. <u>E.I. Kmilo and A.A. Kmilo.</u>	340	303
Determination of the Rate of Diffusion of Hydrogen in Metals. <u>R.A. Riabov and P.V. Gel'd.</u>	343	306
The Measurement of the Magnetic Susceptibility of Liquid Metals. <u>A.A. Vertman and A.M. Samarin.</u>	347	309
Direct Measurement of the Temperature of Metal in Laboratory Induction Furnaces. <u>P.Ia. Sorokin and S.V. Mikhailikov.</u>	349	311
Use of Carbon Replicas in the Investigation of Porous Materials. <u>V.I. Lygin.</u>	351	312
Two-Stage Impression Method of Preparing Fractures for Electron Microscopy. <u>A.N. Piliankevich.</u>	353	314
Method of Assessing Sands for Asphalt Cements. <u>F.K. Zamnius.</u>	355	316
Mechanical Methods of Testing		
Use of Grids for the Study of the Effect of Various Forms of Stresses on the Plastic Limit of Steel. <u>I.A. Razov and E.M. Shevandin.</u>	357	317
Regarding the Distribution of Durability During Fatigue Tests. <u>S.V. Serensen, V.P. Kogaev, M.N. Stepnov and E.V. Glatsintov.</u>	363	324
Method of Determination of Resistance to Warping at High Temperatures. <u>M.P. Markovets and V.P. Tret'iakov.</u>	368	329
On the Determination of the Fatigue Strength of Soft Metals and Alloys. <u>N.M. Rudnitskii.</u>	370	331
Methods of Determining the Adhesive Properties and the Fatigue Strength of Thin Electrolytic Antifriction Coatings. <u>G.G. Gugunishvili.</u>	372	333
Methods of Testing Bimetals for the Strength of Adhesion of the Antifriction Layer to the Base. <u>Iu.Ia. Zil'berg.</u>	375	335
A New Method of Recording the Velocity and the Dynamic Deflection of the Working Parts of Impact-Testing Plants. <u>A.N. Burago.</u>	379	338
Apparatus and Technique of Laboratory Work		
The Development of an Ultrasonic Device for the Inspection of Welds. <u>A.K. Gurvich.</u>	383	342
A Device for the Investigation of the Corrosive and Electrochemical Behavior of Metals Under the Influence of Ionizing Radiation. <u>I.L. Rozenfel'd and E.K. Oshe.</u>	388	346
A New Double-Arc Generator for Spectrochemical Analysis. <u>Huang Pung-li.</u>	390	348
An X-Ray Camera for Precise Angle Measurements. <u>K.P. Mamedov and A.V. Kerimbekov.</u>	395	353
Electroinduction Instrument for the Detection of Cracks in Nonmagnetic Alloy Parts. <u>L.N. Suvorov.</u>	397	354
The Modernization of the High-Temperature Vacuum Furnace Type TVV-2m. <u>V.G. Avetkov, N.S. Kostlukov and B.E. Kuznetsov.</u>	400	356

CONTENTS (continued)

	PAGE	RUSS. PAGE
Furnace for Testing Catalysts and Studying Catalytic Reactions. <u>V.V. Pigulevskii and A.L. Labutin</u>	402	358
Use of Carbon and Graphite Heaters in the TVV-2 Furnace. <u>E.I. Mozhukhin and V.I. Shulepov</u>	404	359
Container for Simultaneous Storage of Several Gamma-Radioactive Substances. <u>A.K. Kir'lanov</u>	405	360
Machine for Testing Relaxation Under Tension. <u>N.D. Zaitsev</u>	406	361
An Instrument for Measuring Inside and Outside Surface Hardness. <u>A.A. Mizeri</u>	409	363
Study of Deformation Processes with the Polarizing Microscope. <u>V.E. Kochnov</u>	411	365
The Use of a Mirror Apparatus for Determining the Internal Stresses in Electrolytic Coatings. <u>M. Ia. Popereka</u>	412	366
Graph for Evaluating the Value of the Microhardness, Determined by the Indentation Method. <u>G.A. Il'inski</u>	413	366
Pendulum Impact Machines of Foreign Manufacture. <u>Kh.N. Dement'ev</u>	414	367
An Apparatus for Investigating the Velocity of Reactions with Automatic Recording of Kinetic Curves. <u>V.V. Lebedev</u>	420	372
Potentiometer Attachment for Precise Determination of pH with a Glass Electrode. <u>V.B. Spivakovskii and N.V. Aksel'rud</u>	423	374
Automation of the Filtration Process of Injection Solutions. <u>F.A. Konev, N.A. Kolesnikov and D.G. Kolesnikov</u>	425	375
Organization of Laboratory Work and Exchange of Ideas		
Typical Radioactive Isotope Laboratory. <u>G.A. Klemeshov, F.L. Panasenko, F.A. Smolenskii and S.M. Shvarts</u>	427	376
Information		
Universal Machine UM-5. <u>B.A. Avdeev</u>	431	380
Reviews and Bibliography		
Information Bulletin of the Kuznets Stalin Metallurgical Combine. <u>O.L. Bendryshev</u>	433	381
New Books	435	383
Conference on X-Ray Flaw Detection	437	384

CONTENTS

	PAGE	RUSS. PAGE
Chemical Methods of Analysis		
The Separation of Zinc From the Cations of Analytical Groups II and III Using Anion Exchange Resins. <u>M. N. Zvereva</u>	439	387
The Spectrophotometric Determination of Cerium in Lanthanum, Neodymium and Praseodymium Specimens. <u>B. M. Dobkina and T. M. Mallutina</u>	442	390
A More Rapid Method for the Polarographic Determination of Indium. <u>S. P. Bukhman, M. V. Nosek and M. T. Kozlovskii</u>	445	392
The Colorimetric Determination of Thallium in Ores and Minerals Using Brilliant Green. <u>N. T. Voskresenskaia</u>	448	395
The Photocolorimetric Determination of Silicon in Copper Alloys. <u>E. I. Nikitina</u>	451	398
Colorimetric Determination of Small Amounts of Phosphorus in the Presence of Large Amounts of Vanadium. <u>V. G. Gorlushina and E. Ia. Birlukova-Gallis</u>	456	402
The Quantitative Determination of Potassium as KBF_4 . <u>Z. T. Maksimychyeva and N. Abdusaliamov</u>	457	403
The Use of Sodium Ferrocyanide for the Amperometric Titration of Manganese. <u>I. L. Teodorovich and M. K. Abramov</u>	460	406
An Amperometric Method for the Determination of the Concentration of Ozone in a Gas Stream. <u>E. V. Kasatkin</u>	461	407
The Control of Gas Saturation in Copper-Base Alloy Melts. <u>A. M. Kartseva and T. A. Vikhoreva</u>	464	410
The Determination of Chlorites and Hypochlorites in Mixtures. <u>P. A. Epik and A. I. Orochko</u>	467	413
The Determination of Free Sulfuric Acid in Boiler Deposits. <u>Iu. M. Kostrikin and V. A. Rumiantseva</u>	470	416
The Determination of Water in Liquid Hydrogen Fluoride. <u>N. S. Nikolaev and I. F. Alenchikova</u>	472	418
The Determination of Phthalic Anhydride in Air Using Derivative Polarograms. <u>I. B. Kogan</u> ..	474	420
The Determination of Benzaldehyde in Air. <u>E. Sh. Gronsberg</u>	476	421
Physical Methods of Analysis		
Method for the Preparation and Analysis of Specimens of Varying Composition. <u>L. S. Palatnik, B. T. Boiko and V. M. Kosevich</u>	477	422

CONTENTS (continued)

	PAGE	RUSS. PAGE
Determination of the Thickness of Water Films on Metals During Atmospheric Corrosion. <u>N. D. Tomashov and A. A. Lokotilov</u>	480	425
Method of Measuring the Aggressiveness of Lubricating Oils at Moderate Temperatures. <u>G. I. Fuks and L. V. Timofeeva</u>	482	427
Corrosion Resistance of Aluminum in a 98% Nitric Acid Solution. <u>M. N. Vitkovskii and V. A. Maslov</u>	485	429
Lead Determination in Lead Glass by β -Radiation Reflection. <u>V. B. Galdadymov and L. I. Il'ina</u>	487	431
A More Accurate Method for Determining Thermal Effect Temperatures from Thermo-grams. <u>V. V. Illarionov, and R. P. Ozerov</u>	490	434
On the Quantitative Analysis of Sulfur by Means of Transparent Print Photometering. <u>Iu. G. Vinogradov and E. A. Greil'</u>	492	436
The Problem of the Quantitative Assessment of the Degree of Transformation in Steel From Dilatometer Curves. <u>Iu. A. Kocherzhinskii</u>	494	437
The Determination of the Thermophysical Properties of Rubber and Slag Wool. <u>G. M. Levin</u>	496	439
Method of Determining the Softening Temperature of Ores and Agglomerates. <u>D. G. Khokhlov and Iu. A. Gyrdymov</u>	499	443
An Investigation of the Mineralogical Composition of an Agglomerate of Krivoi Rog Iron Ores. <u>E. F. Begman</u>	501	444
Spectral Analysis by Calculating Calibration Graphs. <u>I. S. Fishman</u>	504	447
The Determination of Small Amounts of Barium Sulfate in the Paste for Battery Plates. <u>F. F. Mislavskaja and Sh. G. Melamed</u>	511	453
The Spectral Analysis of Copper-Manganese Alloys. <u>V. D. Kovalenko</u>	513	455
The Determination of Copper in Steel by the Spectral Method. <u>G. A. Kliushin</u>	515	457
The Determination of Carbon in Nickel-Chrome Steels by the Spectral Method. <u>E. S. Kudella</u>	516	458
The Quantitative Spectral Analysis of Cast Iron Using an Alternating-Current Arc. <u>L. N. Pliushcheva</u>	517	459
A Method for the Spectral Analysis of Magnesium in Cast Iron and Graphite. <u>K. I. Ionova and S. A. Genshaft</u>	518	459
A Spectral Method for the Determination of Nickel in Cobalt Compounds and Cobalt in Nickel Compounds. <u>G. Ia. Fateeva</u>	520	461
The Spectrographic Determination of Small Impurities in Lead, Bismuth and Tin. <u>I. G. Iudelevich and V. G. Kovaleva</u>	521	461
The Determination of Lithium and Sodium in Alkalis by a Spectral Method. <u>V. S. Komissarenko</u>	522	462
Experience Gained in the Analysis of Blast Furnace Slags by the Spectral Method. <u>R. I. Petukhova</u>	523	463

An Accurate Method of Setting Electrodes for Spectral Analysis. <u>Iu. P. Pollul' and L. M. Fedorova</u>	524	464
Brief Communications	525	465
Mechanical Methods of Testing		
On the Relationship Between the Macro- and Microhardness of Metals. <u>V. D. Lisitsyn</u>	528	467
Use of the Method of Microhardness for Determining the Hardening of Structural Steel by Cold Working and Strain Aging. <u>K. M. Pogodina-Alekseeva and E. E. Krotkova</u> ..	532	470
Dependence of Relaxation Criteria on the Method of Investigation. <u>T. I. Volkova</u>	535	473
Simultaneous Investigation of Two Samples for Creep and Safe Continuous Load. <u>A. A. Zakharov and Sh. N. Kats</u>	538	476
Investigation of the Temperature Dependence of the Modulus of Elasticity of Iron. <u>R. I. Garber and A. I. Kovalev</u>	539	477
Determination of Elasticity Constants by the Dynamic Method, Using Short Test-Pieces <u>K. A. Bessonov and O. F. Stankevich</u>	542	480
Problems of Metallic Fatigue Considered at a Meeting of the French Metallurgical Society. <u>S. V. Serensen</u>	545	482
International Bases for the Standardization of Mechanical Testing Methods for Metals. <u>L. T. Timoshuk</u>	550	487
Instruments and Laboratory Technique		
Apparatus for Static and Dynamic Compression Testing of Specimens at Low Temperature. <u>V. F. Mindukshev and Iu. S. Terminasov</u>	553	489
One-Component Photoelectric Vibrometer. <u>L. I. Broskul'</u>	554	490
Current-Collecting Device for the Determination of the Torque of a Shaft by Means of a Wire-Resistance Data Transmitter. <u>N. S. Shchirenko and V. P. Dobrov</u>	556	491
Fatigue Testing Device for Noncircular Specimens. <u>V. I. Rudnitskii</u>	557	492
A Device for Testing Metals in a Medium of Low-Temperature Air. <u>A. G. Bobrov</u>	558	494
Stands for Testing Pneumatic Drives and Auxiliary Mine Hoists. <u>G. D. Fedorov and K. I. Zablonksii</u>	559	494
Laboratory Rectification Column for Separating High-Boiling Impurities. <u>G. G. Deviatykh and A. D. Zorin</u>	560	496
A Stable Glass Electrode for pH Measurements at Temperatures up to 100°C. <u>N. A. Fedotov</u> ..	562	498
Apparatus for the Determination of Carbon Dioxide in Air. <u>P. I. Bogatkov</u>	564	499
New Design of Cell Holder for the FEK-M Photoelectrocolorimeter. <u>A. T. Uzun and L. A. Stukov</u>	565	500
A Sampling Device. <u>I. S. Pavlushenko and N. M. Kostin</u>	566	501
Liquid Batch-Feeder With an Automatic Retarder for the Beginning of Flow. <u>Ia. B. Finkelshtein</u>	567	502
Brief Communications	568	503
Information		
Conference on the Application of Radioactive Isotopes in Analytical Chemistry	570	505

CONTENTS (continued)

	PAGE	RUSS. PAGE
Third Conference of Spectroscopic Analysts of Nonferrous Metallurgy	573	507
New Machines for Fatigue Testing of Metals by Repeated Bending of a Cantilever Specimen .	575	508
"Epoxyphthamal" — An Optically Active Material.	578	511
Vladimir Nikolaevich Alekseev	579	512

ERRATA

Volume 24, Number 2

Page	Line	Reads	Should read
251	Table 1, Column 1	"Aral'dit" * [5]	"Araldite" * [5]
252	Lit. Cited [2]	M. M. Frokht	M. M. Frocht

CONTENTS

	PAGE	RUSS. PAGE
Factory Laboratories and the Automation of Production	581	515
Trends in the Development of X-ray Structure Analysis	584	519
<u>CHEMICAL METHODS OF ANALYSIS</u>		
Colorimetric Determination of Sulfate Ions by the Use of Colored Complexes of Zirconium or Thorium. <u>A. K. Babko and L. V. Markova</u>	588	524
The Determination of Traces of Alkali Metals in Cesium Salts by a Flame Photometric Method. <u>N. S. Poluektov and M. P. Nikonova</u>	592	528
A Potentiometric Method for the Determination of Zinc and Cadmium in the Presence of One Another. <u>P. K. Agasian</u>	596	532
The Complexometric Determination of Copper in Ores and the Products of Ore Concentration. <u>S. Iu. Fainberg and L. N. Filatova</u>	599	534
A Complexometric Method for the Determination of Copper. <u>O. B. Budevskii</u>	601	535
The Photocolorimetric Determination of Silicon in Fluxes Used for Electric Welding. <u>V. F. Mal'tsev and L. P. Luk'ianenko</u>	603	537
A Method for the Determination of Boric Oxide. <u>V. R. Iankovskii and L. V. Iankovskaya</u>	605	538
Determination of the Zinc Content in Nickel Electrolytes. <u>I. R. Kilachko and A. D. Vinogradova</u>	607	540
The Determination of the Concentration of Cyanide in Coke Oven Gases. <u>S. M. Golland and N. V. Adon'eva</u>	608	541
Applications of Polarography in Organic Analysis. <u>I. A. Korshunov</u>	610	543
Brief Communications	618	548
<u>PHYSICAL METHODS OF INVESTIGATION</u>		
X-ray Methods of Studying the Mosaic Structure of Metals (Review). <u>Ia. S. Umanskii and L. Kh. Pivovarov</u>	619	549
Determination of Lattice Constants of Cubic Crystals from X-ray Photographs of Coarse-Grain Specimens Without the Use of a Standard. <u>Iu. A. Bagariatskii and Iu. D. Tiapkin</u>	625	554
Method of Determining the X-ray Mass Absorption Coefficient of Powdered Materials and of Solutions. <u>A. S. Ivoilov and L. L. Denisova</u>	633	562
On a Method for a Quantitative X-ray Structural Phase Analysis. <u>V. A. Drits</u>	637	565

(continued)

CONTENTS (continued)

	PAGE	RUSS. PAGE
The Method of Ionization Recording in Applied X-ray Structural Analysis (A Review). <u>L. I. Mirkin</u>	643	569
A Method for the Quantitative X-ray Determination of the Concentration of a Solid Solution of Carbon in Apatite. <u>R. P. Ozerov</u>	651	577
X-ray Structural Study of the Phase Composition of an Agglomerate. <u>A. G. Slabchenko</u> . .	654	579
The Use of Microradiography for the Investigation of Mineral Raw Material. <u>A. S. Ivollor</u> and <u>D. T. Grebennikova</u>	657	582
Neutron Structural Analysis of Metals and Alloys (Review). <u>B. G. Llashchenko</u>	660	585
The Present State and the Prospects of Electron Diffraction as Applied to the Study of Materials (Review). <u>Z. G. Pinsker</u>	671	597
The Present State of X-ray Spectral Analysis (Review). <u>K. I. Narbutt</u>	680	604
Quantitative Determination of Rare-Earth Elements in Minerals and Concentrates by Fluorescent X-ray Spectral Analysis. <u>R. L. Barlinski</u>	691	613
Quantitative Determination of U, Th, Pb, Ta, Hf, Nb, Zr, Y and Sr in Ores and Minerals by Fluorescent X-ray Spectral Analysis. <u>K. I. Narbutt</u> and <u>I. D. Bepalova</u>	695	617
Quantitative Determination of Zirconium in Ores by Means of Fluorescent X-ray Spectra. <u>N. F. Losev</u> and <u>A. N. Glotova</u>	698	619
 <u>MECHANICAL METHODS OF TESTING</u>		
On the Determination of the Impact Strength of Steel at Low Temperatures. <u>L. S. Livshits</u> and <u>A. S. Rakhmanov</u>	701	622
Method of Abrasion Testing at High Temperatures. <u>M. P. Markovets</u> and <u>V. P. Tret'yakov</u> . .	704	625
Estimation of the Creep of Materials by the Method of Measuring Their Continuous Hard- ness with Rockwell Machine. <u>Ia. E. Afanas'ev</u> and <u>A. I. Kolpashnikov</u>	706	627
Method of Measuring the Speed of the Plastic Flow of Steel When Elongated by Means of Explosion. <u>E. G. Dolmatov</u> and <u>I. I. Sitnikov</u>	708	629
Determination of Effective Forces by Means of a Conical Crusher Gage. <u>I. R. Konlakhin</u> , <u>L. M. Sedokov</u> , and <u>M. S. Gorbenko</u>	711	632
 <u>INSTRUMENTS AND LABORATORY TECHNIQUES</u>		
The Use of Computers for X-ray Investigations. <u>V. I. Vlasenko</u> and <u>G. S. Zhdanov</u>	713	634
Adapter for the URS-50I Apparatus for Photographs at High and Low Temperatures. <u>L. S.</u> <u>Zevin</u> and <u>D. M. Kheiker</u>	716	636
Adapter for Studying Texture on the X-ray Apparatus URS-50I. <u>M. M. Borodkina</u>	718	638
An X-ray Tube for Obtaining Fluorescence Spectra in a High-Temperature Range. <u>N. D.</u> <u>Borisov</u> , <u>V. V. Nemoshkalenko</u> , and <u>G. S. Svirskii</u>	720	639
Equipment for X-ray Photography of Samples at Low Temperature. <u>V. F. Mindukshev</u> and <u>Iu. S. Terminasov</u>	721	641
X-ray Camera for Investigating Texture of a Thin Surface Layer of a Flat Sample. <u>B. A.</u> <u>Mishin</u>	722	642

CONTENTS (continued)

	PAGE	RUSS. PAGE
High-Temperature X-ray Camera. <u>A. V. Belotskii and V. N. Gridnev</u>	724	643
Camera for Studying X-ray Scattering in the Region of Small Angles. <u>Iu. V. Mnlukh</u>	726	644
Independent Standard for Measurement of the Intensity of Interference Lines in the Camera KROS-1. <u>O. N. Shivrln</u>	727	645
High-Temperature Camera for X-ray Photography of Liquid and Solid Bodies. <u>A. S. Lashko</u> and <u>G. S. Svirskii</u>	728	646
Camera for X-ray Diffraction Micrographs. <u>B. V. Sharov</u>	729	647
Back-Scattering Camera with Independent Standard at Low Temperatures. <u>N. I. Sandler</u> and <u>Zh. N. Akhmechet</u>	731	648
Use of the URS-55 Apparatus for X-ray Structural Analysis Under Shop Conditions. <u>M. V.</u> <u>Shtal'man and V. N. Balabanov</u>	732	649
About X-ray Structural Cameras for the Plant Laboratory. <u>V. V. Nechvolodov</u>	733	649
Brief Communications	734	650
<u>ORGANIZATION OF LABORATORY WORK AND EXCHANGE OF VIEWS</u>		
The Work of the X-ray Laboratory at the Gorkii Automobile Works	735	651
Use of X-ray Structural Analysis at the Kuznetsk Metallurgical Combine	737	653
On the Problem of Beryllium Determination by Means of the Acid Alizarin Blue BB	738	654
On the Reduction of End Friction in a Cylindrical Specimen Under Compression	739	655

Note to Readers

An advertisement for the firm of Dema, Copenhagen, appears on the inside back cover of the original Russian issue of Industrial Laboratory. It has not been reproduced in this translation. — Publisher.

CONTENTS

	PAGE	RUSS. PAGE
Our Problems in the Field of Automation. <u>I.P. Bardin</u>	743	659
Chemical Methods of Analysis		
The Analysis of Pure Metals. The Determination of an Admixture of Silicon in Some Semiconductor Metals. <u>V.A. Nazarenko and G.V. Flantikova</u>	746	663
A Comparative Investigation of Photometric Methods of Determining Gallium. <u>D.P. Shcherbov and A.I. Ivankova</u>	751	667
Coprecipitation in Quantitative Analysis. Report V. The Influence of a Complex Ion on the Precipitation of Zirconium Phosphate. <u>A.K. Babko and M.I. Shtokalo</u>	759	674
Determination of Microquantities of Titanium in a Niobium Base. <u>Iu.A. Chernikhov, Sh.G. Melamed and B.M. Dobkina</u>	762	677
A Method of Determining Phosphoric Acid in Superphosphates by Means of Ion Exchangers. <u>I.G. Lakomkin</u>	764	679
A New Variant of the Determination of Active Chlorine in Bleaching Powder by the Electrometric Titration Method. <u>G.V. Zavarov</u>	766	681
The Determination of Small Amounts of Hydrogen Fluoride With a Titanium-Chromotropic Reagent. <u>M.D. Skanavi</u>	769	683
The Polarographic Determination of Primary Aliphatic Amines. <u>H.F. Alekseev</u>	771	684
The Determination of Admixtures of Propylene in Ethylene and Ethane-Ethylene Fractions. <u>K.A. Gol'bert and A.V. Alekseeva</u>	776	688
A Method for the Analysis of Certain Acyl Chlorides of Phosphoric Acid. <u>E.L. Gefter</u>	779	691
Methods of Determining Acid, Ester and Iodine in Brown Coal Bituminous Substances. <u>I.A. Khrizman, V.E. Bonvech and E.M. Beizerov</u>	781	692
Brief Communications	784	694
Physical Methods of Investigation		
Tests of the FES-1 Photoelectric Steelometer. <u>I.S. Abramson, L.P. Maliavkin, A.N. Morgilevskii and V.A. Slavnyi</u>	785	695
Spectral Analysis of Steels With a Modernized FES-1 Instrument. <u>N.V. Bulanov, S.L. Zubkovskii, T.V. Kovalenko, V.F. Korotkov and V.R. Lindstrem</u>	792	703
Experimental Work With the FES-1 Photoelectric Steelometer. <u>I.M. Veselovskaia</u>	799	709
Analysis of Some Elements in Alloys Using a Photoelectric Steelometer. <u>K.A. Sukhenko, K.A. Moiseeva, I.G. Tishin and L.D. Metelina</u>	802	711

CONTENTS (continued)

	PAGE	RUSS. PAGE
Photoelectric Spectral Analysis Abroad. <u>L.N. Filimonov and V.O. Khandros</u>	804	712
Spectral Methods of Determining Trace Impurities. 1. Chemicospectral Methods for the Analysis of Strontium, Chromium and Silicon. <u>Sh.I. Peizulaev, A.G. Karabash,</u> <u>L.S. Krauz, F.A. Kostareva, N.I. Smirnova-Averina, F.L. Babina, L.I. Kondrat'eva,</u> <u>E.F. Voronova and V.M. Meshkova</u>	816	723
Spectral Analysis of Exceptionally Pure Tin Employing Preliminary Concentration. <u>D.M. Shvarts and V.V. Portnova</u>	824	731
The Spectrochemical Determination of Impurities in Very Pure Metallic Zinc. <u>R.I. Gutkina</u>	828	734
Spectral Analysis by the Vaporization Method. <u>L.V. Lipis</u>	830	736
Increase in Sensitivity of the Spectral Analysis of Gases by Concentration in a Direct Current Discharge. <u>N.A. Matveeva</u>	842	746
The Question of Increasing the Reproducibility of Spectral Analysis. <u>I.K. Malboroda</u>	844	748
Photographic Methods of Analysis of Ferrous and Nonferrous Alloys With an ISP-51 Spectro- graph. <u>A.S. Dem'ianchuk, M.E. Shifman and M.I. Rekitar</u>	847	751
The Question of the Use of Carbon Electrodes in the Spectral Analysis of Steels. <u>E.S.</u> <u>Kudelia</u>	849	752
Spectrographic Determination of Impurities in Elementary Tellurium. <u>I.G. Iudelevich and</u> <u>V.G. Kovaleva</u>	851	754
The Spectral Analysis of the Silicon, Aluminum and Iron Content in Metallic Chromium. <u>Ia.M. Kalinskii</u>	852	755
The Discharge Duration of an Alternating Current Arc in Quantitative Spectral Analysis. <u>V.P. Borzov</u>	853	756
Brief Communications	855	757
Mechanical Methods of Investigation		
The Technique of Measuring Microhardness With Thin Films. <u>L.S. Palatnik, G.V. Fedorov</u> and <u>V.M. Kosevich</u>	857	759
Procedure for Obtaining True Microhardness Values by Chemical Removal of Cold-Hardened Surface Layers. <u>V.N. Vigdorovich and A.E. Vol'pian</u>	860	762
The Effect of Bending in Torsion Investigations. <u>B.A. Vandyshev and E.E. Surikova</u>	862	764
Method of Investigating the Weldability of Metals While Subjected to Plastic Deformation. <u>E.I. Astrov and A.I. Chichkanov</u>	866	768
The Investigation of Turbine Materials for Resistance to Scoring. <u>A.V. Ratner and V.N.</u> <u>Gul'iaev</u>	869	770
Use of Replicas for Measuring Component Wear. <u>E.S. Kuznetsov and O.V. Sokolov</u>	873	774
Appraisal of Degree of Deformation in Simple Compression Tests. <u>V.G. Osipov</u>	874	775

CONTENTS (continued)

	PAGE	RUSS. PAGE
Instruments and Laboratory Technique		
Photoelectric Analyzer for the Analysis of Aluminum Alloys. <u>L.S. Fel'dman, G.A. Prokhorov</u> <u>and T.A. Bronnikova</u>	875	776
Apparatus for Measuring Absorption Spectra With Photoelectric Recording. <u>S.Z. Shul'ga</u> . . .	877	778
Photometric Attachment for Steeloscope. <u>V.I. Ponomar'</u>	879	780
Brief Communications	880	781
Information		
International Conference on Standardization. B.A. Generozov.	881	782
Conference on the Use of Radioactive Isotopes in Ferrous Metallurgy. V.I. Malkin.	883	783

CONTENTS

	PAGE	RUSS. PAGE
Present-Day Tasks of Spectral Analysis.	885	787
Chemical Methods of Analysis		
The Separation of Uranium, Vanadium and Iron by Paper Chromatography. <u>Iu. V. Morachevskii, M. N. Gordeeva and T. E. Kruglova</u>	888	790
The Use of Fluorescence in Chromatography. <u>N. M. Ziuskin</u>	891	793
Errors in Chromatographic Analysis Caused by Incomplete Separation. <u>A. A. Zhukhovitskii and N. M. Turkel'taub</u>	893	796
The Use of Ascorbic Acid in the Determination of Molybdenum by the Thiocyanate Method. <u>A. I. Lazarev and V. I. Lazareva</u>	896	798
The Analysis of Pure Metals. The Determination of Traces of Cadmium in Indium and Thallium. <u>V. A. Nazarenko and G. V. Flantikova</u>	898	801
The Determination of Rhenium in Products Containing Molybdenum. <u>B. N. Ranskii</u>	900	803
The Quantitative Determination of Thorium by Precipitation with Sodium Benzene-Sulfinic Acid. <u>I. P. Alimarin and S. S. Alikberov</u>	902	804
The Separation of Cobalt and Zinc by the Amalgam Method. <u>G. N. Babkin</u>	905	808
The Determination of the Intermetallic Phase in Nickel Alloys. <u>N. M. Popova and A. F. Platonova</u>	907	810
The Determination of Iron, Cobalt and Copper in Nickel Without Cutting Samples. <u>G. V. Loshkareva</u>	910	813
A Potentiometric Method for the Determination of Acrylonitrile Using Hydroxylamine. <u>A. P. Terent'ev, S. I. Obtemperanskaia and M. M. Buzlanova</u>	911	814
The Polarographic Determination of the Adsorptive Capacity of Coals and Semicokes. <u>R. K. Ognev</u>	912	815
Use of the Fischer Reagent in Synthetic Rubber Production Control. <u>S. Ia. Skochilova and E. Kh. Rud'</u>	914	816
The Determination of Dicyclohexylamine Nitrite Inhibitor in Paper. <u>B. L. Moldavskii and E. V. Nazarova</u>	915	817
A Catalyst for the Determination of Total Hydrocarbons in Air. <u>V. P. Vendt and T. A. Lebedeva</u>	915	818
The Determination of the Concentration of Organophosphorus Insecticides in Air. <u>M. A. Trotsenko and V. P. Vendt</u>	917	820
Brief Communications.	919	821

CONTENTS (continued)

	PAGE	RUSS. PAGE
Physical Methods of Investigation		
Use of the Viscosity Method for the Study of the Kinetics of Slow Reactions in Intermetallic Compounds Formation. <u>V. M. Glazov</u>	922	824
New Method of Measuring the Thermodynamic Characteristics of Solid Solutions. <u>A. A. Zhukhovitskii and A. G. Golitsyn</u>	927	828
Determination of the Surface Area of Catalysts from Adsorption Isotherms Taken In a Flowing System. <u>V. A. Afanas'ev and A. M. Rubinstein</u>	929	830
Laboratory Methods of Studying Volatile Inhibitors. <u>V. P. Persiantseva and I. L. Rozenfeld</u>	931	832
Study of Microscopic Nonuniformity of Steel with Respect to Silicon Content by Means of Surface Oxidation. <u>F. K. Tkachenko and V. F. Zubarev</u>	935	837
Color Metallography in Polarized Light. <u>V. S. Ermakov</u>	936	838
Use of the Imprint Method in Fractography. <u>A. N. Piliankevich</u>	939	839
Detection of the Microstructure of Ferrites. <u>O. B. Danilina</u>	940	840
Method of Preparing Specimens for the Metallographic Analysis of the Wear Spot. <u>N. T. Pavlovskaya, G. I. Kos'kun and M. D. Bezborod'ko</u>	941	840
Detection of Low-Carbon Steel Microstructure by Electrolytic Polishing and Etching. <u>B. S. Kasatkin</u>	943	842
On the Determination of the Spalling Index of Limestones from Various Deposits. <u>A. L. Klein and P. V. Umrykhin</u>	945	843
Mechanical Methods of Testing		
Calculation of Effective Stresses in a Ring Specimen Subjected to Creep and Relaxation. <u>I. A. Oding and G. F. Lepin</u>	947	845
Local Character of Plastic Deformation in a Ring Specimen. <u>G. F. Lepin</u>	952	849
Simplified Piercing Test for Metals. <u>N. S. Kirvalidze and I. Iu. Korobochkin</u>	954	850
On the Estimation of the Plasticity of Low-Carbon Alloy Steel by the Hotupsetting Method. <u>I. A. Andreev, I. T. Baruzdin and L. Ia. Gluskin</u>	958	855
New Method of Determining the Ductility of Metals. <u>D. I. Berezhkovskii</u>	962	858
Apparatus and Technique of Laboratory Work		
Experimental Apparatus for the Study of Strain Using Fine Grids. <u>B. P. Sokolov</u>	965	861
A Machine for the Investigation of the Relaxation of Metals Subjected to Torsional Stresses. <u>Ia. S. Gintsberg</u>	969	865
The Use of IP-4 Machines for Fatigue Tests of Specimens with a Complex Stressed Condition. <u>Sh. N. Kats</u>	972	867
A Machine for Friction Tests at High Temperatures. <u>L. M. Feigin</u>	973	869
Device for Impact Tension Testing of Heat-Resisting Alloy Specimens at High Temperatures. <u>M. V. Rastegaev and A. E. Borisov</u>	975	871

CONTENTS (continued)

	PAGE	RUSS. PAGE
Extensometers for Measuring Static Deformations Up to a Temperature of 450°C. <u>E. Iu. Nekhendzi and N. G. Tisenko</u>	976	872
Extensometer Wire Grid for Measuring Large Deformations. <u>V. L. Biderman and V. A. Pugin</u>	979	874
New Spectral Instruments. <u>A. Ia. Khashafian</u>	980	875
The Role of Graphite Powder in Spectral Analysis and Its Application for the Analysis of Very Pure Antimony. <u>R. R. Shvangiradze and N. V. Simonova</u>	987	881
A Holder for the Determination of Gases in Metals by the Spectral Method. <u>A. I. Polevoi</u>	990	884
Simple Flame Photometer Using Filters. <u>V. V. Kisilevskii, T. K. Vorot'nik and T. I. Tiutiunnikova</u>	991	885
Photoelectric Readout Appliance. <u>T. B. Gavrilova</u>	994	888
Laboratory Method for Preparation of Infrared Radiation Rods. <u>G. B. Melusova</u>	995	888
Instrument for Contactless Measurement of Electrical Conductivity of Electrolytes and Other Materials. <u>L. M. Suvorov</u>	996	889
Small-Size Equipment for Electropolishing and Electroetching of Metallographic Sections. <u>L. Ia. Popilov</u>	997	890
New Magnetometer with Ferromagnetic Probe. <u>P. Sh. Shkliar, A. A. Popov and V. L. Salov</u>	999	892
An Investigation of the Work of Laboratory Mixers by Means of Magnetic Indicators. <u>Ia. A. Kraftmakher, A. N. Liulichev and D. M. Shakhtin</u>	1001	893
On the Question of Instruments for the Investigation of the Thermal Processes in Metallurgical Furnaces. <u>A. D. Kliuchnikov</u>	1003	895
Laboratory Shaft Furnace with Induction Heating. <u>A. A. Perestoronin, S. A. Vermenichev and T. N. Zaidman</u>	1005	897
Corrosion Tests in Ampules. <u>Kh. L. Tseitlin, A. S. Sel'tser, N. N. Zemlianitskaya, V. A. Strunkin and L. V. Merzloukhova</u>	1006	898
A Portable Viscosimeter. <u>V. S. Kuz'menko and A. S. Bogorad</u>	1007	899
Apparatus for Estimating the Deformability of Rubber Stock. <u>A. A. Pozin, G. Sh. Izraelit and M. D. Nusinov</u>	1009	901
A Laboratory Vibrating Mill. <u>B. S. Aleksandrov</u>	1010	902
An Attachment to the Polishing Machine. <u>V. N. Bratchikov</u>	1011	902
A Simplified Method of Preparing Fischer Reagent. <u>V. A. Tsirul'</u>	1011	903
Brief Communications	1012	904
Organization of Laboratory Work and Exchange of Views		
The Volumetric Determination of Fluorine in Borofluorides. <u>Z. T. Maksimycheva, Sh. T. Talipov and A. M. Koginova</u>	1014	905

CONTENTS (continued)

	PAGE	RUSS. PAGE
Measurement of the Dynamic Hardness of Metals. <u>E. I. Timofeeva and L. A. Urvantsov</u>	1016	906
Some Difficulties in the Operation of an Industrial Laboratory	1017	907
Information		
Conference of the Workers in the Central Laboratories of Organizations in the Cheliabinsk Economic Region. <u>Iu. I. Cheremovskii</u>	1018	909
Reviews and Bibliography		
"Relaxation of Stresses in Metals" (Ia. S. Gintsburg), <u>E. A. Kheim</u>	1021	911

CONTENTS

	PAGE	RUSS. PAGE
Experimental Use of Radioactive Isotopes in Ferrous Metallurgy. <u>L. A. Shvartsman</u>	1025	915
Chemical Methods of Analysis		
Multiple Radioactive Dilution for Determining Trace Impurities. <u>I. E. Zimakov</u> and <u>G. S. Rozhavskii</u>	1030	922
A Radiometric Method for Determination of Potassium in Mineral Fertilizers. <u>S. I. Krichmar</u> and <u>L. G. Kaistra</u>	1034	925
Determination of Silver in Alloys by Radiometric Titration. <u>V. I. Plotnikov</u>	1036	927
Spectrophotometric Determination of Niobium in Alloys. <u>I. P. Kharlamov</u> , <u>P. Ia. Iakovlev</u> , and <u>M. I. Lykova</u>	1037	928
Analysis of Pure Metals. Determination of Cobalt as an Impurity in Bismuth. <u>V. A. Nazarenko</u> and <u>G. G. Shitareva</u>	1041	932
Determination of Small Amounts of Bismuth, Lead, Cobalt, Nickel, Phosphorus, Iron, and Copper Using Ionites. <u>V. V. Stepin</u> , <u>V. I. Ponomov</u> , and <u>E. V. Silaeva</u>	1043	934
A Nondestructive Absolute Method for the Analysis of Metals and Alloys. <u>A. G. Loshkarev</u>	1048	939
Precipitation and Determination of Tungsten in Molybdenum Compounds. <u>A. N. Zelikman</u> and <u>N. N. Gorovits</u>	1050	940
A Polarographic Method for Testing Various Plastics. <u>V. D. Bezuglyi</u> and <u>V. N. Dmitrieva</u>	1051	941
A Galvanometric Method for Controlling the Oxidation of Paraffin. <u>D. V. Faerman</u> and <u>L. P. Ol'shanskii</u>	1057	947
A Volt-Amp Method for the Determination of Phenol in Isopropylbenzene Using a Rotating Platinum Anode. <u>V. I. Ginzburg</u> and <u>T. A. Frishman</u>	1058	949
Polarographic Analysis of Anthraquinone Mixtures. <u>V. E. Ditsent</u>	1060	951
Determination of Alkoxy Groups in Organic Silicon Compounds. <u>G. D. Nessonova</u> and <u>E. K. Pogosiants</u>	1061	953
Polarographic Determination of Iodine and Bromine in Sea Kale. <u>N. N. Atamanenko</u> and <u>N. I. Belinskaja</u>	1062	954
Indicator Papers. <u>G. D. Glebova</u> and <u>G. N. Kosheleva</u>	1063	955
Brief Communications	1067	958

CONTENTS (continued)

	PAGE	RUSS. PAGE
Physical Methods of Investigation		
Application of Radiometric Method to Determination of Uranium, Thorium, and Radium in Ores. <u>E. I. Zheleznova and D. V. Tokareva</u>	1068	959
Application of Autoradiography in the Study of Nontransparent Objects. <u>A. Ia. Abramov and L. I. Kononovich</u>	1073	963
Calculation of the Radioactivation of Specimens and Parts in Investigation of Their Wear Resistance by the Method of Labeled Atoms. <u>D. G. Tochil'nikov</u>	1075	965
Application of Scintillation Counters in the Study of Wear Processes. <u>A. I. Nisnevich</u>	1084	971
The Use of Radioactive Isotopes in the Measurement of the Local Characteristics of an Alloy. <u>S. Z. Bokshstein</u>	1087	974
A Method of Determining the Diffusion Coefficients in Metals and Alloys. <u>A. Ia. Shiniayev</u>	1093	979
The Application of Radioactive Thallium to Gamma-Defectoscopy. <u>V. S. Tokmakov</u>	1097	983
Exposure Charts for Betatron Gamma-Defectoscopy. <u>A. E. Buzynov, M. D. Mochalov, and I. G. Fakidov</u>	1100	986
Scintillation Methods of Measuring the Radioactivity of Weak Preparations. <u>V. F. Smirnov</u>	1103	989
Measuring Small Amounts of Radium and Thorium Emanations by Means of a Pulse Ionization Chamber. <u>A. M. Babeshkin, V. I. Baranov, and K. B. Zaborenko</u>	1111	996
The Use of the Luminescence Spectrometer for the Identification of Radioisotopes. <u>A. A. Sorokin, L. S. Novikov, and F. I. Pavlotskaia</u>	1112	997
Determination of Hydrogen in Tantalum, Niobium and Uranium. <u>A. N. Zaidel' and K. I. Petrov</u>	1115	1000
Mechanical Methods of Testing		
The New Hardness Number and the Mechanical Properties of Steel. <u>M. S. Drozd</u>	1117	1002
On the Determination of Hardness by the Scratching Method. <u>V. K. Grigorovich</u>	1124	1007
On the Determination of the Mechanical Properties of Steel for Deep Drawing from the Values of the Coercive Force. <u>B. S. Natapov and E. S. Fal'kevich</u>	1130	1013
The Determination of the Silicon Content at Various Levels of the Layer by the Microhardness Method. <u>Z. G. Ordina</u>	1132	1015
Assessment of the Tendency of Steel to Brittleness in Service. Evaluation of the Effect of the Scale Factor. <u>E. M. Shevandin</u>	1134	1017
Criterion of Steel Brittleness. <u>T. A. Vladimirovskii</u>	1142	1024
Instruments and Laboratory Technique		
Apparatus for Noncontact Measurement of the Thickness of Rolled Sheet Steel by Absorption of Radiation. <u>A. M. Bogachev</u>	1148	1029

CONTENTS (continued)

	PAGE	RUSS. PAGE
Portable Battery Indicator for Radioactive Radiation. <u>B. Z. Votlokhin</u>	1151	1032
The Use of the "Tiss" Radiometer for Detecting β -Radiation. <u>V. A. Glazkov</u> and <u>P. N. Kodochigov</u>	1152	1033
An Instrument for Determining the Whiteness, Luster, and Chromaticity of Enamel Coatings. <u>K. P. Azarov and V. E. Gorbatenko</u>	1153	1033
Brief Communications	1154	1034
Organization of Laboratory Work and Exchange of Views		
The Planning of a Laboratory for Work With Radioactive Isotopes. <u>Iu. V. Seredin</u>	1156	1036
Experience Gained in the Use of Radioactive Indicators in the Azovstal' Metallurgical Works. <u>A. M. Skrebtsov</u>	1158	1038
Reviews and Bibliography		
Machines for Fatigue Testing. Design and Construction. (S. V. Serensen, M. E. Garf, and L. A. Kozlov) <u>M. Ia. Shashin</u>	1160	1039

CONTENTS

	PAGE	RUSS. PAGE
Chemical Methods of Analysis		
The Analysis of Aqueous Solutions of Chlorites and Chlorine Dioxide. <u>Sh. S. Shchegol'</u>	1163	1043
The Use of Arsenazo Reagent for the Determination of Rare Elements. <u>A. F. Kuteinikov</u> . . .	1171	1050
The Photometric Determination of Magnesium Using Phenazo Reagent. <u>V. I. Kuznetsov,</u> <u>L. M. Budanova and L. A. Nenasheva</u>	1173	1053
The Analysis of Indium Antimonide, Indium Arsenide and Gallium Arsenide. <u>Iu. A.</u> <u>Chernikhov and T. V. Cherkashina</u>	1178	1057
The Amperometric Determination of Iron in Various Materials Using Trilon B(EDTA). <u>Iu. I.</u> <u>Usatenko and M. A. Vitkina</u>	1179	1058
The Determination of Iron and Aluminum in Iron-Aluminum Bronzes Using Trilon B(EDTA). <u>M. I. Rozenberg</u>	1181	1060
A New Indicator of the Acid Chrome Dark Blue Type for Use with Trilon B (EDTA). <u>I. S.</u> <u>Mustafin, E. A. Kashkovskaia and A. N. Ivanova</u>	1182	1060
A More Rapid Method for the Determination of Selenium in the Materials Encountered in Sulfuric Acid Production. <u>F. N. Kel'man</u>	1183	1061
The Separation of Niobium from Zirconium using Selenious Acid. <u>I. P. Alimarin and E. I.</u> <u>Stepaniuk</u>	1185	1064
Periodate and Iodate Methods for the Analysis of Elementary Boron and Borides. <u>L. Ia.</u> <u>Markovskii and G. V. Kaputovskaia</u>	1186	1065
A Luminescence Method for the Control of Alkaline Tinning Baths. <u>K. F. Gudymenko, M. U.</u> <u>Belyi and M. A. Skachko</u>	1188	1066
A Method for the Analysis of Copper Fluoborate Electrolyte. <u>E. N. Lukashova, N. M. Baram</u> <u>and V. G. Kuznetsova</u>	1189	1067
The Purification of Dithizone for the Determination of Micro-Quantities of Metals. <u>A. I.</u> <u>Markova</u>	1190	1069
Brief Communications	1192	1070
Physical Methods of Investigation		
Nonisothermic Method of Determining the Diffusion Characteristics. <u>A. A. Zhukhovitskii,</u> <u>S. N. Kriukov and E. A. Soldatov</u>	1193	1071
Determination of the Specific Surface of Activated Charcoal by Adsorption from Solution. <u>A. V. Kiselev and I. V. Shikalova</u>	1197	1074
Phase Analysis by Means of X-Ray Diffractometers. <u>D. M. Kheiker</u>	1199	1077

CONTENTS (continued)

	PAGE	RUSS. PAGE
Direct Determination of the Deuterium Content in Deuteriobenzene by Means of a Mass Spectrometer. <u>G. A. Semenov and M. Ia. Turkina.</u>	1207	1084
Spectral Analysis of Precision Alloys. <u>N. V. Buianov and N. P. Kaminskaia.</u>	1210	1086
Electron-Microscopic Method for Investigating the Internal Structure of Powder Form and Compact Tungsten. <u>N. P. Vasil'eva, T. A. Sultanian and I. N. Chaporova</u>	1214	1090
Electron-Microscopic Investigation of the Structure of Cermet Hard Alloys. <u>Z. V. Svistunova, I. N. Chaporova, N. P. Vasil'eva, T. A. Sultanian and V. E. Kiselev</u>	1217	1093
Measurement of the Resistance of Electroconductive Powders During the Process of Pressing. <u>V. N. Kotelkov</u>	1220	1095
Mechanical Methods of Testing		
On Methods of Thermal Fatigue Testing. <u>S. V. Serensen and P. I. Kotov</u>	1221	1097
On the Basis for Endurance Testing of Titanium. <u>E. S. Reinberg</u>	1232	1107
Investigation of the Effect of the Frequency of Load Reversal on the Endurance of Armco Iron. <u>V. I. Shabalin</u>	1235	1110
On the Question of Assessing the Quality of Sheet Steel by Testing for Impact Strength. <u>V. G. Chernashkin, A. M. Gofner and M. A. Sivriukova.</u>	1237	1112
Plasticity and Brittleness of Structural Steel as Determined by Biaxial Tensile Tests on Notched Specimens. <u>V. A. Bykov</u>	1241	1116
Effect of the Shape of the Cross-Section of the Specimen in Static and Impact Shear Testing. <u>V. I. Zaiarnyi</u>	1244	1119
Calculation of Impact Energy in Multiple Impact Tests. <u>Iu. S. Tomenko, I. V. Navrotskii and F. R. Volchek.</u>	1247	1122
On the Determination of the Impact Compression Strength of Timber. <u>E. K. Ashkenazi, B. P. Dutov and G. M. Rubinshtein</u>	1251	1125
Instruments and Laboratory Technique		
Photocolorimetric Gas Analyzer for Determining Toxic Concentrations of Oxides of Nitrogen in Air. <u>M. T. Borok</u>	1254	1128
The Analytical Part of the Apparatus for the Vacuum Extraction of Gases Without Mercury. <u>R. N. Rubinshtein, I. V. Postnikov and A. P. Ievlev.</u>	1260	1135
Gas Analyzer for the Rapid Determination of Hydrocarbons in Natural Gas. <u>M. M. Elinson</u>	1267	1141
Apparatus for the Determination of Carbon Monoxide. <u>T. A. Frantsuzova</u>	1270	1144
Laboratory Installation for the Preparation of Ozone. <u>L. S. Kupperberg and V. V. Bolotnyi</u>	1271	1145
Automatic Device for Pumping Gas in Manually-Operated Gas Analyzers. <u>N. A. Belov.</u>	1273	1147
A Laboratory Thermostat for Temperatures from +60 to -40°C. <u>M. G. Batrukova, N. N. Moskvitin and A. I. Sarakhov</u>	1275	1149
Thermostats with Attachment on Top for Determination of Solubility. <u>A. V. Lapitskii, An. N. Nesmeianov and S. P. Alekhin.</u>	1276	1150

CONTENTS (continued)

	PAGE	RUSS. PAGE
Device for Taking Samples of Catalyst Suspensions. <u>V. V. Patrikeev and M. L. Khidekel</u> . . .	1278	1152
Apparatus for Washing of Mercury. <u>V. Ia. Efremov and E. I. Popov</u>	1279	1152
A Laboratory Centrifuge. <u>P. N. Tereshchenko and V. I. Antonov</u>	1280	1153
New Power-Driven Grinders. <u>O. V. Shcherbak</u>	1281	1154
Crucible of Increased Durability for Assay Analyses. <u>S. P. Viktorov and V. E. Evgenev</u> . . .	1282	1155
An Electrical Moisture Indicator. <u>G. I. Leskov and E. E. Flomina</u>	1282	1155
Improvement of the TVV-2 Furnace for Operations under Vacuum and with Controlled Atmospheres. <u>B. A. Borok, V. I. Gavrilin, B. P. Lopashev and V. P. L'vovskaja</u>	1285	1158
Apparatus for Measurement of Film Thickness. <u>V. S. Aleksandrov and S. L. Epshtein</u>	1287	1159
Apparatus for Fluorescence Analysis with Three Ranges of Excitation Luminosity. <u>D. P. Erastov</u>	1288	1160
Brief Communications.	1290	1161
Organization of Laboratory Work and Exchange of Views		
Application of Ultrasonic Flaw Detection in the "Zaporozhstal" Plant. <u>V. G. Borisenko</u> . . .	1291	1162
Determination of Internal Stresses in Galvanic Coating. <u>M. Ia. Popereka, A. M. Fraktor, K. S. Frusin, A. A. Martynenko and D. N. Famil'tsev</u>	1293	1164
Information		
Silicon-Iditol Lacquer for Wire Strain-Gauges Working Under Conditions of High Humidity. <u>S. I. Malkov, B. D. Nessonov, V. A. Matveev and G. D. Nessonova</u>	1296	1166
Reviews and Bibliography		
Machines and Instruments for Testing Materials. <u>V. I. Kirnosov and I. I. Ianovskii</u>	1297	1167
New Books	1299	1168

CONTENTS

	PAGE	RUSS. PAGE
Chemical Methods of Analysis		
Comparative Evaluation of Methods for Determination of Oxide Inclusions in Steel. <u>V. A. Mchedlishvili</u>	1301	1171
The Acid Decomposition Method for Determination of Thorium and Uranium in Sandstones. <u>V. I. Kuznetsov, G. I. Malofeeva and I. V. Nikol'skaia</u>	1308	1178
Decomposition of Difficultly Soluble Foundry and Open-Hearth Slags by the Sintering Method. <u>Iu. I. Usatenko and N. P. Fedash</u>	1309	1180
Rapid Determination of Calcium Oxide in Fluxed Agglomerates, Limestones, Dolomites, and Slags. <u>V. D. Konkin</u>	1311	1181
Determination of the Phase Composition of Silicon-Alloy Slags. <u>M. V. Babaev and N. M. Kostianovskaia</u>	1312	1183
Determination of Metallic Iron in Presence of Ferrous and Ferric Oxides. <u>I. T. Taranenko</u> ..	1314	1184
Spectrophotometric Determination of Palladium with Nioxime and α -Benzyldioxime. <u>N. K. Pshenitsyn and O. M. Ivonina</u>	1315	1185
Determination of Aluminium with "Al'beron" Reagent. <u>E. A. Kashkovskaia and I. S. Mustafin</u> .	1319	1189
Colorimetric Determination of Germanium Phenylfluoronate. <u>F. G. Zharovskii and A. T. Pilipenko</u>	1321	1192
Colorimetric Determination of Tin in Metallic Lead by Means of Phenylfluorone. <u>S. D. Gur'ev and N. F. Saraeva</u>	1324	1195
Automatic Chronoconductometric Method for Analysis of a Mixture of Sulfuric and Acrylic Acids and Ammonium Bisulfate. <u>T. A. Khudiakova</u>	1326	1197
Amperometric Determination of Boric Acid. <u>V. I. Bogovina and V. G. Selivanov</u>	1329	1200
Preparation of Carbonate-Free Alkali. <u>S. A. Brusilovskii</u>	1331	1203
Fluorescence Analysis of Inorganic Substances. <u>D. P. Shcherbov</u>	1332	1203
Brief Communications	1344	1213
Physical Methods of Investigation		
Ultrasonic Quality Control of Contact Spot and Seam Welding. <u>S. T. Nazarov and Iu. P. Panov</u>	1345	1214
Exposure of Crystallization Layers in Seamwelds by the Method of Electrolytic Etching. <u>V. A. Sidliarenko, G. I. Parfessa and A. A. Rossoshinskii</u>	1348	1217

CONTENTS (continued)

	PAGE	RUSS. PAGE
Rapid Analysis of Carbon-Free and Low-Carbon Ferrochrome for Its Silicon Content by the Thermal EMF Method. <u>M. I. Gasik and B. I. Embin</u>	1349	1218
An Aerosol Sedimentation Method for Determination of the Particle-Size Distribution in Powders and Dust Deposits. <u>Ia. I. Kogan, T. A. Pfeifer and V. V. Korsakov</u>	1350	1219
A Pycnometer Method for Determination of Apparent Specific Gravity of Coke. <u>K. I. Syskov and O. V. Verbitskaia</u>	1355	1224
Procedure for Determination of Hydrogen Solubility in Magnesium and Its Alloys. <u>M. V. Sharov and V. V. Serebriakov</u>	1358	1226
Increased Precision in Measurement of Ohmic Resistances. <u>V. P. Chumakov</u>	1360	1228
Determination of Density and Molecular Weight of Vapors in a Wide Range of Temperatures. <u>E. A. Balamutova</u>	1361	1230
Automatization of the Thermostatic Method for Determination of Heat Evolution from Cement During its Hardening. <u>P. A. Pshenitsyn</u>	1363	1232
Mechanical Methods of Testing		
Bending Tests of a Wide Specimen as an Estimate of Metal Deformability. <u>T. L. Danilov, A. P. Ivanov, A. A. Kroshkin, I. A. Razov, E. M. Shevandin and I. L. Shimelevich</u>	1365	1233
Study of the Mechanical Aging of Steel by the Method of Combined True-Tension Diagrams. <u>L. I. Gladshstein, P. I. Sokolovskii and A. V. Rudchenko</u>	1367	1236
Tension Diagrams for Steel Under Instantaneous Loading. <u>A. B. Litvin</u>	1370	1239
Study of the Plastic Strain in Thin-Walled Metal Tubes Under Combined Tension and Torsion. <u>Iu. I. Iagn and O. A. Shishmarev</u>	1373	1243
Method of Determining the Strength of Oxide Films. <u>V. N. Guliaev</u>	1375	1245
Determination of the Strength of Pressed Metal Powders. <u>Iu. N. Semenov</u>	1377	1246
Methods of Testing Thermally Stable Materials Under Conditions of Variable Temperature and Stress. <u>L. B. Getsov</u>	1378	1247
Instruments and Laboratory Technique		
Application of the Type SF-4 Spectrophotometer in Flame Spectrophotometry. <u>M. A. Averbukh</u>	1383	1252
A Simple Construction of a Flame Photometer. <u>Iu. I. Ostroushko and I. L. Romanov</u>	1385	1254
Arrangement for Oscillographic Recording of Stresses and Deformations Under the Action of Impact Forces. <u>N. N. Shemarin</u>	1387	1256
Apparatus for Measuring with Greater Accuracy the Dependence of Elastic Moduli and Damping Decrement on Temperature. <u>G. I. Kataev</u>	1389	1258
Installation for Field Tests on the Endurance of Drill Pipes Used in Geological Prospecting. <u>T. N. Kornev and B. M. Akhmedov</u>	1393	1261
Reconstruction of the Graph-Plotting Apparatus of the P-5 Universal Testing Machine. <u>D. A. Pomazan</u>	1395	1264
Dynamometer for Measurement of Forces in Impact Reactions of Cylindrical Specimens. <u>R. V. Orlov and V. M. Kurbatov</u>	1396	1265

CONTENTS (continued)

	PAGE	RUSS. PAGE
Apparatus for Investigation of Thermal Stability. <u>V. I. Sheliubskii</u>	1397	1266
Friction Machine for Investigation of Lubricating Qualities of Oil Products. <u>M. D. Bezborod'ko, N. T. Pavlovskaja and G. V. Vinogradov</u>	1399	1267
Apparatus for the Determination of Mechanical Properties of Rocks. <u>I. I. Slezinger, K. S. Konenkov and O. P. Petrova</u>	1401	1270
Apparatus for Compression Tests on Flat Specimens. <u>Iu. S. Danilov, N. V. Kadobnova and L. G. Mironov</u>	1403	1271
Tensometer for Measuring Elongation During Creep and Continuous-Strength Tests in Small Machines. <u>B. M. Rakhman</u>	1404	1272
Experiment on Inductive Current Collection in Tensiometry. <u>B. A. Skorodumov and Iu. V. Bubyr</u>	1405	1273
Device for Measuring Small Deformations During Compression Tests on Rock Samples. <u>V. M. Kurbatov</u>	1407	1274
The Use of Infrared Heating in the Determination of the Hardness of Color-Varnish Coatings. <u>I. I. Golovistikov and V. V. Chebotarevskii</u>	1408	1276
Device for Determination of Linear Wear on Concave Cylindrical Surfaces. <u>A. V. Tiratsulian</u>	1409	1277
An Improved Sedimentmeter. <u>V. I. Panov</u>	1410	1277
Automatic Device for Exact Measurement of Viscosity of a Liquid. <u>V. N. Dudarchik, S. S. Uzarovskii and P. A. Cherniavskii</u>	1411	1278
Apparatus for Determining Melting Points. <u>S. Z. Taitis and I. A. Lavrov</u>	1412	1279
Preparation of Copper-Constantan Thermocouples for Precise Temperature Measurements. <u>V. A. Karasenko</u>	1414	1281
Apparatus for Determination of the Thermal-Expansion Coefficient of Refractory Materials. <u>A. N. Liulichev, F. I. Chuprinin and S. I. Kovalenko</u>	1415	1282
Application of a Microfurnace to the Study of Wetting Phenomena. <u>V. F. Kniasev</u>	1416	1283
Instrument for Measurement of Low Specific Electroconductivities in Liquids. <u>G. A. Vostrov and I. L. Gandel'sman</u>	1417	1284
An Etching Bath for Metal Samples. <u>T. T. Drobiazko</u>	1419	1285
Elastic Containers for Storage of Photographic Solutions. <u>V. M. Sharaniuk</u>	1419	1286
A Design Change in a Glass Circulating Pump. <u>L. N. Starkov</u>	1420	1286
A Semiautomatic Device for Placing Insulator Beads Over Thermocouple Electrodes. <u>N. G. Fetisov</u>	1420	1287
Pipet for Measuring Out Poisonous and Radioactive Solutions. <u>G. S. Kononov</u>	1422	1288
Electromechanical Mortar for Comminuting Radioactive Powders. <u>T. T. Drobiazko</u>	1422	1289
Efficient Performance of Analyses by the Combustion Method. <u>M. M. Nikitin</u>	1423	1289
Fluoroplast-4 (Teflon) Seal for Stirring in Vacuo. <u>Zh. S. Sogomonians</u>	1424	1290
Device for the Direct Addition of Liquids Under Pressure. <u>O. L. Lebedev and A. M. Redoshkin</u>	1425	1291

CONTENTS (continued)

	PAGE	RUSS. PAGE
Device for Measuring the Melting Points of Difficultly Fusible Metals and Alloys. <u>V. P. Vinokurov</u>	1426	1292
Brief Communications.	1426	1292
Information		
The Release of Standard Samples and Standards for Spectral Analysis. <u>V. V. Stepin</u>	1429	1294
The Second Ural Spectroscopy Conference. <u>G. P. Skorniakov and A. B. Shaevich</u>	1430	1295
Reviews and Bibliography		
Amperometric (Polarimetric) Titration in the Analysis of Mineral Ores. <u>V. I. Titov</u>	1431	1296

CONTENTS

	PAGE	RUSS. PAGE
Mendeleev and Modern Science. <u>Iu.A. Kliachko</u>	1433	1299
Chemical Methods of Analysis		
Analysis of Complex Systems by Reflection of β -Radiation. <u>S.N. Kriukov, B.S. Bokshtein, T.I. Degal'tseva and A.A. Zhukhovitskii</u>	1438	1305
Investigations Relating to the Theory of Electrochemical Phase Analysis of Alloys. <u>Iu.A. Kliachko, M.M. Shapiro, V.S. Mal'tseva and V.A. Mil'chev</u>	1441	1308
Phase Analysis of Nitrided Steels. <u>N.I. Blok, M.N. Kozlova, N.F. Lashko and A.G. Andreeva</u> ..	1446	1315
The Use of Oscillographic Polarography in Quantitative Analysis. Microanalytical Determination of Certain Metals. <u>Robert Kalvoda</u>	1451	1319
Lead as Indicator in Amperometric Titrations with Sodium Diethyldithiocarbamate Solutions. <u>Iu.I. Usatenko and F.M. Tuliupa</u>	1457	1327
Amperometric Determination of Arsenic and Selenium by a Direct Iodide Method. <u>O.A. Songina and A.P. Voiloshnikova</u>	1461	1331
Determination of Tantalum by Differential Spectrophotometry. <u>B.M. Dobkina and T.M. Maliutina</u>	1466	1336
Fluorometric Determination of Sulfate Ions and Spectrophotometric Determination of Thorium with the Aid of Trihydroxyfluorone Derivatives. <u>V.A. Nazarenko and M.B. Shustova</u> ..	1474	1344
Fluorometric Determination of Tellurium with Rhodamine C. <u>D.P. Shcherbov and A.I. Ivan-kova</u>	1476	1346
The Use of Fluoboric Acid in Quantitative Analysis. Determination of Potassium and Sodium in Mixtures of Chlorides. <u>I.G. Ryss and E.L. Nilus</u>	1479	1349
The Use of Paper Chromatography for Analysis and Identification of Naphthylamine- and Naphtholsulfonic Acids. <u>T.M. Selezneva</u>	1483	1353
Separate Determination of Sulfuric Acid and Sulfonic Acids by Titration in Nonaqueous Solvents. <u>E.A. Gribova and A.S. Levin</u>	1485	1356
A Rational Range of Analytical Methods. <u>V.I. Kuznetsov</u>	1487	1358
Brief Communications	1494	1366
Physical Methods of Investigation		
"Crystal Lattice Load-Strain" Curve Obtained by the Continuous Recording Method. <u>B.M. Rovinskiĭ and V.M. Sinaiskii</u>	1495	1367

CONTENTS (continued)

	PAGE	RUSS. PAGE
Piezometric Method for the Determination of Dissolved Gases in Liquids. <u>K.E. Perepelkin.</u> .	1498	1370
Quantitative Determination of Aluminum and Titanium in Low-Pressure Polyethylene by Means of Spectrographic Analysis. <u>G.P. Fratkina</u>	1501	1373
A New Method of Analyzing Petroleum and Bitumens without Preliminary Ashing. <u>V.I. Malinina and V.P. Varlamov</u>	1502	1374
Method of Determining the Degree of Adhesion of Lacquer Coatings to Metallic Surfaces. <u>I.I. Kletchenkov</u>	1503	1376
Mechanical Methods of Testing		
Linear Interpretation of Cumulative Damage and Resistance Characteristics to Fatigue and Stress Rupture [Long-Time Static Destruction]. <u>S.V. Serensen and L.A. Kozlov.</u>	1506	1378
A New Method of Applying Grids. <u>L.M. Rybakova</u>	1521	1392
On Methods of Determining the Localized and Uniform Plasticity in Tension. <u>G.I. Pogodin-Alekseev and A.G. Vasil'eva</u>	1523	1394
Models for Stress Investigations Made of Optically Insensitive Transparent Material with Inserts of ED6-M Material. <u>N.I. Prigorovskii, E.N. Filimonova and G.S. Dedovets</u>	1525	1396
Application of Composite Piezoelectric Resonators for Determining Moduli of Elasticity and Internal Friction in Solid Bodies. <u>B.I. Kisin.</u>	1529	1400
Determination of Dynamic Errors when Testing Fatigue in Bending. <u>M.É. Graf and P.M. Ruban</u>	1532	1403
Determination of Elastic Constants of Materials by Means of Longitudinal Ultrasonic Vibrations. <u>V.A. Kuz'menko</u>	1536	1407
Instruments and Laboratory Technique		
An Automatic Polarographic Concentration Meter. <u>S.B. Tsfasman, I.E. Bryksin and B.S. Bruk</u>	1538	1409
A Visual Square-Wave Polarograph. <u>B.Ia. Kaplan and E.N. Ulanovskii</u>	1542	1414
New Centrifugal Instrument for Sedimentometric Analyses. <u>N.A. Figurovskii and T.B. Gavrilova.</u>	1545	1417
An Autoclave for Electrochemical Studies at High Temperatures and Pressures. <u>V.V. Gerasimov, A.I. Gromova and A.A. Sabinin.</u>	1548	1420
A Lag-Free Temperature Regulator. <u>V.I. Smirnov.</u>	1549	1421
Information		
Conference on the Polarization-Optical Method of Stress Investigations. <u>N.I. Prigorovskii and A.V. Krupin</u>	1550	1422
Seminar in Analytical Chemistry of Dispersed Elements. <u>V.A. Oshman and K.V. Ogorodnikov</u>	1551	1423
Reviews and Bibliography		
Measures for the Protection of Personnel Working with Radioactive Substances. <u>S.S. Gur'vits</u>	1553	1424
New Books.	1554	Back cover

CONTENTS

	PAGE	RUSS. PAGE
The Seven-Year Plan — A Great Program for the Construction of Communism	1557	I
CHEMICAL METHODS OF ANALYSIS		
Spectrophotometric and Kinetic Methods of Determining Molybdenum in Alloys. <u>K. B. Iatsimirskii and I. I. Alekseeva</u>	1561	1427
The Photocolorimetric Orthophenanthroline Method of Determining Vanadium in Chromium Metal. <u>P. Ia. Iakovlev and G. P. Razumova</u>	1564	1430
Determination of Cobalt in Nickel Metal. <u>B. E. Reznik, R. E. Dlugach and R. T. Rudskala</u> ..	1565	1431
Flame Photometric Determination of Strontium in Silicates and Carbonates Using Liquid Light Filters. <u>G. I. Ksandopulo and D. P. Shcherbov</u>	1566	1432
Determination of Magnesium in Zirconium by Ion Exchange Chromatography. <u>S. V. Ellinson and M. S. Limonik</u>	1569	1434
Separation of Zinc from Indium by Electrolysis with a Mercury Electrode. <u>M. G. Salun, P. P. Tsyb and K. Kh. Latkher</u>	1571	1436
An Express Method for the Analysis of Lead and Zinc in Bronzes by Potentiometric Titration Based on Precipitation of These Metals as Their Sulfides. <u>V. A. Kremer, E. I. Vail', F. P. Frizluk and L. S. Sonchik</u>	1574	1440
A Rapid Method for the Total Analysis of Silicon Carbide. <u>T. Ia. Kosolapova and E. E. Kotliar</u>	1576	1442
Maintenance of Temperature Conditions During the Colorimetric Determination of Potassium as $K_2Pb[Ni(NO_2)_6]$. <u>A. I. Krupkin and V. L. Konovalov</u>	1578	1444
Determination of Sulfur in Coal Processing Products by the Double Combustion Method. <u>V. I. Dal', V. A. Zakupra and I. N. Ruban</u>	1579	1445
Polarographic Determination of Methylsalicylate. <u>V. D. Bezuglyi and V. N. Dmitrieva</u> ...	1581	1446
Comparison of Methods for the Determination of Organic Materials in Aluminate Solutions. <u>D. B. Bezuglyi and I. A. Petrusevich</u>	1582	1448
Complexonometric Indicators. (A Review). <u>A. I. Busev and A. G. Petrenko</u>	1584	1449
PHYSICAL METHODS OF INVESTIGATION		
Methods of x-Ray Examination of Spot Welds of Duralumin Alloys. <u>D. G. Bykhovskii</u>	1595	1458
The Effect of Voltage on the Contrast of x-Ray Spectrum Lines. <u>V. A. Kazantsev</u>	1597	1460

CONTENTS (continued)

	PAGE	RUSS. PAGE
Volume-Adsorption Method for Determining the Specific Surface of Carbon Black. <u>I. N. Duzhanskii</u>	1600	1463
A Method for Thickness Measurement by Means of an Ultrasonic Pulse Thickness-Measuring Device. <u>I. F. Lopatko and G. I. Usoskin</u>	1601	1464
Some Causes of Errors in the Measurement of Temperatures by Means of Thermocouples. <u>A. N. Gordov and N. N. Ergardt</u>	1605	1467
The Immersion of Thermocouples. <u>S. K. Danishevskii</u>	1608	1470
The Continuous Measurement of Liquid Steel Temperature in the Ladle. <u>P. Ia. Sorokin, A. V. Zabalkin, P. P. Babich and O. A. Zakharov</u>	1613	1475
Determination of Impurities in Ferronitrium by Spectrographic Analysis. <u>A. B. Shaevich, Ia. M. Kalinskii, N. I. Chabanenko and M. A. Perepelkina</u>	1616	1478
Comparison of Different Methods for the Spectrographic Determination of Nickel in Steel. <u>E. I. Brainin</u>	1617	1479
Spectrographic Analysis of Binary Alloys of Iron and Chromium. <u>E. V. Lifshits, V. G. Konovalov and V. F. Erko</u>	1621	1483
Steelometric Analysis of Some Types of Bronze. <u>A. V. Evko</u>	1623	1484
Improvement in the Method of Spilling in the Sample in Spectrographic Analysis. <u>O. F. Chesnokov and Ia. A. Kopeikin</u>	1625	1487
Refractometric Method for the Determination of Caprolactam and N-Methylcaprolactam. <u>A. S. Shpital'nyi and L. A. Vol'f</u>	1626	1489

MECHANICAL METHODS OF TESTING

Determination of the Degree of Local Deformation According to Microhardness. <u>V. D. Lisitsyn</u>	1627	1490
A Visual Method for Investigating Abrasion of Rubber-Lined Bearings. <u>A. V. Kol'chenko and A. A. Silin</u>	1631	1494
The Question of Comparison of Brinnell and Meyer Hardness. <u>P. A. Gorezko</u>	1633	1496
Organic Glass Tests with Repetitive Loading at Low Frequencies. <u>G. N. Finogenov</u>	1634	1497
Method of Testing the Strength of Adhesion of Silicate to Organic Glass. <u>T. V. Glebova</u>	1637	1500
Parametric Methods of Assessing the Long-Time Rupture Strength of Heat-Resisting Alloys. (A Survey). <u>L. Ia. Liberman</u>	1638	1501

INSTRUMENTS AND LABORATORY TECHNIQUE

A Torque Magnetometer for Determining the Influence of Stresses and Deformations on the Decomposition of Austenite. <u>P. V. Novichkov</u>	1649	1510
A Machine for Testing Metals for Wear Caused by Friction and Impact. <u>M. P. Prishchepa, V. I. Karpov and A. F. Kolesnikov</u>	1651	1512
Machine for the Investigation of the Resistance to Wear in Rolling. <u>A. L. Chestnov</u>	1652	1513

CONTENTS (continued)

	PAGE	RUSS. PAGE
Machine for the Investigation of the Fatigue Strength of Tubes Under Pressure Combined with Cyclic Bending Stress. <u>B. V. Zver'kov</u>	1655	1514
Improvement of the Control System of the 200-T Testing Machine. <u>V. A. Anan'ev</u>	1656	1516
A New Instrument for Measuring Automatically the Logarithmic Damping Ratio (of Internal Friction). <u>A. E. Fedorovskii</u>	1657	1517
A Multistation Fixture for Testing Gears on a Pulsator. <u>B. S. Tsfas</u>	1660	1520
The Measurement of the Microhardness of Specimens of up to 300 mm Long. <u>N. A. Sologub</u>	1661	1521
Vertical High-Tonnage Testing Machines of Foreign Make (A Survey). <u>Kh. N. Dement'ev</u> .	1663	1523
Dilatometers for Metals and Alloys. <u>R. S. Mints</u>	1666	1526
ORGANIZATION OF LABORATORY WORK AND EXCHANGE OF VIEWS		
Determination of Internal Stresses in Electroplating According to the Deflection of the Flat Cathode. <u>N. N. Davidenkov</u>	1670	1529
Iulii Iul'evich Lur'e (On the occasion of his sixtieth birthday)	1672	1531
INDEX TO VOLUME 24, 1958		
Tables of Contents, Numbers 1-12.	1677	
Author Index	1715	

- Abdusallamov, N., see Maksimychyeva, Z. T. - 457
- Abramov, A. Ia and L. I. Kononovich, Application of Autoradiography in the Study of Nontransparent Objects - 1073
- Abramov, M. K., see Teodorovich, I. L. - 460
- Abramova, V. F., see Rlabchenkov, A. V. - 171
- Abramson, I. S., L. P. Maliavkin, A. N. Mogilevskii and V. A. Slavnyi, Tests of the FES-1 Photoelectric Steelometer - 785
- Adon'eva, N. V., see Golliand, S. M. - 608
- Afanas'ev, Ia. E. and A. I. Kolpashnikov, Estimation of the Creep of Materials by the Method of Measuring Their Continuous Hardness with Rockwell Machine - 706
- Afan'sev, V. A. and A. M. Rubenstein, Determination of the Surface Area of Catalysts from Adsorption Isotherms Taken in a Flowing System - 929
- Agasian, P. K., A Potentiometric Method for the Determination of Zinc and Cadmium in the Presence of one Another - 596
- Agasian, P. K., see Lomakina, L. N. - 234
- Agasian, P. K., see Lomakina, L. N. - 300
- Akhmechet, Zh. N., see Sandler, N. I. - 731
- Akhmedov, B. M., see Kornev, T. N. - 1393
- Aksel'rud, N. V., see Spivakovskii, V. B. - 423
- Alekhn, S. P., see Lapitskii, A. V. - 1276
- Aleksandrov, B. S., A Laboratory Vibrating Mill - 1010
- Aleksandrov, V. S. and S. L. Epshtein, Apparatus for Measurement of Film Thickness - 1287
- Alekseev, H. F., The Polarographic Determination of Primary Aliphatic Amines - 771
- Alekseev, I. I., see Iatsimirskii, K. G. - 1561
- Alekseev, N. F., L. G. Iakobson, M. P. Dvinianina and N. N. Lavrent'eva, A More Rapid Method for the Analysis of Mixtures Containing Ammonia and Methylamines - 317
- Alekseev, S. N., A Device for Photographing the Surfaces of Cylindrical Metal Specimens Used for Corrosion Tests - 105
- Alekseeva, A. V., see Gol'bert, K. A. - 776
- Alekseeva, N. D., see Veselovskii, V. S. - 184
- Alenchikova, I. F., see Nikolaev, N. S. - 472
- Alikberov, S. S., see Allmarin, I. P. - 902
- Allmarin, I. P. and S. S. Alikberov, The Quantitative Determination of Thorium by Precipitation with Sodium Benzene-Sulfinic Acid - 902
- Allmarin, I. P. and M. N. Petrikova, Ultramicro-analysis - 26
- Allmarin, I. P. and E. I. Stepaniuk, The Separation of Niobium from Zirconium Using Selenious - 1185
- Al'tovskii, R. M., see Tomashov, N. D. - 336
- Amosov, P. N., see Vydrin, V. N. - 87
- Anan'ev, V. A., Improvement of the Control System of the 200-T Testing Machine - 1656
- Andreev, I. A., I. T. Baruzdin and L. Ia. Gluskin, On the Estimation of the Plasticity of Low-Carbon Alloy Steel by Hot Up-setting - 958
- Andreeva, A. G., see Blok, N. I. - 1446
- Antonov, V. L., see Tereshchenko, P. N. - 1280
- Ashkenazi, E. K., B. P. Dutov and G. M. Rubenshtein, On the Determination of the Impact Compression Strength of Timber - 1251
- Astrov, E. I. and A. I. Chichkanov, Method of Investigating the Weldability of Metals While Subjected to Plastic Deformation - 866
- Atamanenko, N. N. and N. I. Belinskaya, Polarographic Determination of Iodine and Bromine in Sea Kale - 1062
- Avdeev, B. A., New Machines for Testing the Endurance of Metals by the Plain Bending of a Rotating Specimen - 277
- Avdeev, B. A., Universal Machine UM-5 - 431
- Averbukh, M. A., Application of the Type SF-4 Spectrophotometer in Flame Spectrophotometry - 1383
- Avetikov, V. G., N. S. Kostjukov and B. E. Kuznetsov, The Modernization of the High-Temperature Vacuum Furnace Type TVV-2m - 400
- Azarov, K. P. and V. E. Gorbatenko, An Instrument for Determining the Whiteness, Luster, and Chromaticity of Enamel Coatings - 1153
- Babaev, M. V. and N. M. Kostianovskaya, Determination of the Phase Composition of Silicon Alloy Slags - 1312
- Babaev, M. V., see Kostianovskaya, N. M. - 280
- Babeshkin, A. M., V. I. Baranov and K. B. Zaborenko, Measuring Small Amounts of Radium and Thorium Emanations by Means of a Pulse Ionization Chamber - 1111

- Babich, P. P., see Sorokin, P. Ia. - 1613
- Babina, F. L., see Peizulaev, Sh. I. - 816
- Babkin, G. N., The Separation of Cobalt and Zinc by the Amalgam Method - 905
- Babko, A. K. and L. V. Markova, Colorimetric Determination of Sulfate Ions by the Use of Colored Complexes of Zirconium or Thorium - 588
- Babko, A. K. and M. I. Shtokalo, Coprecipitation in Quantitative Analysis. Report V. The Influence of a Complex Ion on the Precipitation of Zirconium Phosphate - 759
- Babko, A. K. and A. I. Volkova, Amperometric Determination of Molybdenum and Tungsten in the Presence of Nickel - 132
- Bagariatskii, Iu. A., A Method for Calculating the Debye Patterns of Cubic Crystals by Means of a Slide Rule - 119
- Bagariatskii, Iu. A. and Iu. D. Tiapkin, Determination of Lattice Constants of Cubic Crystals from X-ray Photographs of Coarse-Grain Specimens without the Use of a Standard - 625
- Balabanov, V. N., see Shtal'man, V. N. - 732
- Balamutova, E. A., Determination of Density and Molecular Weight of Vapors in a Wide Range of Temperatures - 1361
- Baram, N. M., see Lukashova, E. N. - 1189
- Baranov, V. L., see Babeshkin, A. M. - 1111
- Bardin, I. P., Our Problems in the Field of Automation - 743
- Barinskii, R. L., Quantitative Determination of Rare-Earth Elements in Minerals and Concentrates by Fluorescent X-ray Spectral Analysis - 691
- Baruzdin, I. T., see Andreev, I. A. - 958
- Bashun, Z. S., see Morachevskii, Iu. V. - 17
- Batranina, G. A., see Kostylev, Iu. V. - 111
- Batrakova, M. G., N. N. Moskvitrin and A. I. Sarakhov, A. Laboratory Thermostat for Temperatures from +60 to -40°C - 1275
- Beizerov, E. M., see Khrizman, I. A. - 781
- Belinskaia, N. I., see Atamanenko, N. N. - 1062
- Bel'mes, M. S., A Machine for Testing Wire Rope in Fatigue Using an Asymmetric Cycle - 114
- Belotskii, A. V. and V. N. Gridnev, High-Temperature X-ray Camera - 724
- Belov, N. A., Automatic Device for Pumping Gas in Manually Operated Gas Analyzers - 1273
- Belyi, M. U., see Gudymenko, K. F. - 1188
- Bendryshev, O. L., Information Bulletin of the Kuznets Stalin Metallurgical Combine - 433
- Benediktova, A. A., A Laboratory Apparatus for Determining the Frost Resistance of High-Polymer Films - 264
- Berezhkovskii, D. I., New Method of Determining the Ductility of Metals - 962
- Berlad, V. P. and G. V. Likhmitskii, Machine for Testing Wear in Reciprocating Motion - 242
- Bespalova, I. D., see Narbutt, K. I. - 695
- Bessonov, K. A. and O. F. Stankevich, Determination of Elasticity Constants by the Dynamic Method, Using Short Test-pieces - 542
- Betman, E. F., An Investigation of the Mineralogical Composition of an Agglomerate of Krivoi Rog Iron Ores - 501
- Bezborod'ko, M. D., N. T. Pavlovskaya and G. V. Vinogradov, Friction Machine for Investigation of Lubricating Qualities of Oil Products - 1399
- Bezborod'ko, M. D., see Pavlovskaya, N. T. - 941
- Bezuglyi, D. B. and I. A. Petrusevich, Comparison of Methods for the Determination of Organic Materials in Aluminate Solutions - 1582
- Bezuglyi, V. D. and V. N. Dmitrieva, A Polarographic Method for Testing Various Plastics - 1051
- Bezuglyi, V. D. and V. N. Dmitrieva, Polarographic Determination of Methylsalicylate - 1581
- Bidermann, V. L. and V. A. Pugin, Extensometer Wire Grid for Measuring Large Deformations - 979
- Birul'kov-Gall's, E. Ia., see Goriushina, V. G. - 456
- Bliakman, A. A., see Fainberg, S. Iu. - 15
- Blinchevskii, G. K., see Tomashov, N. D. - 336
- Blok, N. I., A. I. Glazova, G. M. Kokhova and N. F. Lashko, Phase Analysis of Complex Titanium Alloys - 140
- Blok, N. I., M. N. Kozlova, N. F. Lashko and A. G. Andreeva, Phase Analysis of Nitrided Steels - 1446
- Bobrov, A. G., A Device for Testing Metals in a Medium of Low-Temperature Air - 558
- Bogachev, A. M., Apparatus for Noncontact Measurement of the Thickness of Rolled Sheet Steel by Absorption of Radiation - 1148
- Bogatkov, P. I., Apparatus for the Determination of Carbon Dioxide in Air - 564
- Bogorad, A. A., see Kuz'menko, V. S. - 1007
- Bogovina, V. I. and V. G. Selivanov, Amperometric Determination of Boric Acid - 1329
- Boiko, B. T., see Palatnik, L. S. - 477
- Bokshtein, B. S., see Kriukov, S. N. - 1438
- Bokshtein, S. Z., The Use of Radioactive Isotopes in the Measurement of the Local Characteristics of an Alloy - 1087
- Bolotnyi, V. V., see Kupperberg, L. S. - 1271
- Bonvech, V. E., see Khrizman, I. A. - 781
- Borisenko, V. G., Application of Ultrasonic Flaw Detection in the "Zaporozhstal" Plant - 1291

- Borisov, A. E., see Rastegaev, M. V. - 975
- Borisov, N. D., V. V. Nemoshkalenko and G. S. Svirskii, An X-ray Tube for Obtaining Fluorescence Spectra in a High-Temperature Range - 720
- Borisova, A. K. and V. A. Sol'ts, Measuring the Modulus of Elasticity of Spring Alloys Using Thin Specimens - 68
- Borodkina, M. M., Adapter for Studying Texture on the X-ray Apparatus URS-501 - 718
- Borok, B. A., V. I. Gavrilin, B. P. Lopashev and V. P. L'vovskaya, Improvement of the TVV-2 Furnace for Operation Under Vacuum and with Controlled Atmospheres - 1285
- Borok, M. T., Photocolorimetric Gas Analyzer for Determining Toxic Concentrations of Oxides of Nitrogen in Air - 1254
- Borzov, V. P., The Discharge Duration of an Alternating Current Arc in Quantitative Spectral Analysis - 853
- Brainin, E. I., Comparison of Different Methods for the Spectrographic Determination of Nickel in Steel - 1617
- Bratchikov, V. N., An Attachment to the Polishing Machine - 1011
- Bronnikova, T. A., see Fel'dman, L. S. - 875
- Broskul', L. I., One-Component Photoelectric Vibrometer - 554
- Bruk, B. S., see Tsfasman, S. B. - 1538
- Brusilovskii, B. A., Application of Long Focal Distances to an X-ray Method for the Determinations of Residual Stress - 46
- Brusilovskii, S. A., Preparation of Carbonate-Free Alkali - 1331
- Bryksin, I. E., see Tsfasman, S. B. - 1538
- Bubyr', Iu. V., see Skorodumov, B. A. - 1405
- Budanov, L. M., see Kuznetsov, V. I. - 1173
- Budevskii, O. B., A Complexometric Method for the Determination of Copper - 601
- Bulanov, N. V. and N. P. Kaminskaya, Spectral Analysis of Precision Alloys - 1210
- Bulanov, N. V., S. L. Zubkovskii, T. V. Kovalenko, V. F. Korotkov and V. R. Lindstrom, Spectral Analysis of Steels with a Modernized FES-1 Instrument - 792
- Bukhman, S. P., M. V. Nosek and M. T. Kozlovskii, A More Rapid Method for the Polarographic Determination of Indium - 445
- Burago, A. N., A New Method of Recording the Velocity and the Dynamic Deflection of the Working Parts of Impact-Testing Plants - 379
- Burov, V. S., see Simanov, Iu. P. - 105
- Busev, A. I., M. I. Ivaniutin and E. M. Feigina, A Colorimetric Method of Determining Copper in Nickel Electrolytes - 292
- Busev, A. I., L. V. Kiseleva and A. I. Cherkosov, Complexometric Determination of Thorium Using 1-(2-Pyridylazo)-2 Naphthol as Indicator - 10
- Busev, A. I. and A. G. Petrenko, Complexometric Indicators (A Review) - 1584
- Butylkin, L. P., see Kreimer, S. E. - 127
- Buzlanova, M. M., see Terent'ev, A. P. - 158
- Buzlanova, M. M., see Terent'ev, A. P. - 911
- Buzynov, A. E., M. D. Mochalov and I. G. Fakidov, Exposure Charts for Betatron Gamma-Defectoscopy - 1100
- Bykhovskii, D. G., Methods of X-ray Examination of Spot Welds of Duralumin Alloys - 1595
- Bykov, V. A., Plasticity and Brittleness of Structural Steel as Determined by Biaxial Tensile Tests on Notched Specimens - 1241
- Byr'ko, V. M., see Gibalov, I. M. - 314
- Bystrov, A. A., see Korolev, B. I. - 107
- Chabanenko, N. I., see Shaevich, A. B. - 1616
- Chaporova, I. N., see Svistunova, Z. V. - 1217
- Chaporova, I. N., see Vasil'eva, N. P. - 1214
- Chebotaevskii, V. V., see Golovistikov, I. I. - 1408
- Cheremovskii, Iu. I., Conference of the Workers in the Central Laboratories of Organizations in the Cheliabinsk Economic Region - 1018
- Cherkashina, T. V., see Chernikhov, Iu. A. - 1178
- Cherkosov, A. I., see Busev, A. I. - 10
- Chernashkin, V. G., A. M. Gofner and M. A. Sivriukova, On the Question of Assessing the Quality of Sheet Steel by Testing for Impact Strength - 1237
- Cherniavskii, P. A., see Dudarchik, V. N. - 1411
- Chernikov, Iu. A. and T. V. Cherkashina, The Analysis of Indium Antimonide, Indium Arsenide and Gallium Arsenide - 1178
- Chernikhov, Iu. A., Sh. G. Melamed and B. M. Dobkina, Determination of Microquantities of Titanium in a Niobium Base - 762
- Chernova, G. P., see Tomashov, N. D. - 336
- Chertok, M. M., The Work of the X-ray Laboratory at the Gorkii Automobile Works - 735
- Chesnokov, O. F. and Iu. A. Kopeikin, Improvement in the Method of Spilling in the Sample in Spectrographic Analysis - 1625
- Chestnov, A. L., Machine for the Investigation of the Resistance to Wear in Rolling - 1652
- Chichkanov, A. I., see Astrov, E. I. - 866
- Chistov, N. M., see Frumer, L. A. - 266
- Chumakov, V. P., Increased Precision in Measurement of Ohmic Resistances - 1360
- Chuprinin, F. I., see Liulichchev, A. N. - 1415
- Dal', V. I., V. A. Zakupra and I. N. Ruban, Determination of Sulfur in Coal Processing Products by the Double Combustion Method - 1579

- Danilina, O. B., Detection of the Microstructure of Ferrites - 940
- Danilov, Iu. S., N. V. Kadobnova and L. G. Mironov, Apparatus for Compression Tests on Flat Specimens - 1403
- Danilov, T. L., A. P. Ivanov, A. A. Kroshkin, I. A. Razov, E. M. Shevandin and I. L. Shimelevich, Bending Tests of a Wide Specimen as an Estimate of Metal Deformability - 1365
- Danishvskii, S. K., The Immersion of Thermocouples - 1608
- Davidenkov, N. N., Determination of Internal Stresses in Electroplating According to the Deflection of the Flat Cathode - 1670
- Davidovich, Ia. G., see Fialkov, A. S. - 261
- Davidovich, Ia. G. and K. V. Kononova, Microstructural Investigation of Phase Transformations in Metallo-ceramic Systems on Heating - 60
- Davydova, I. R., see Kiperman, S. L. - 237
- Dedovets, G. S., see Prigorovskii, N. I. - 1525
- Degal'tseva, T. I., see Kriukov, S. N. - 1438
- Dement'ev, Kh. N., Testing Machines of Foreign Manufacture With Electronic Dynamometers - 253
- Dement'ev, Kh. N., Pendulum Impact Machines of Foreign Manufacture - 414
- Dement'ev, Kh. N., Vertical High-Tonnage Testing Machines of Foreign Make (A Survey) - 1663
- Dem'ianchuk, A. S., M. E. Shifman and M. I. Rekitar, Photographic Methods of Analysis of Ferrous and Nonferrous Alloys With an ISP-51 Spectrograph - 847
- Demidov, L. G., Method of Fractional Analysis of Coal by Means of a Centrifuge - 190
- Denisova, L. L., see Ivoilov, A. S. - 633
- Deriagin, G. A., Some Improvements in the Measurement of Deformation for the Determination of Residual Stresses in Thin-Walled Rings (Tubes) - 219
- Deviatykh, G. G. and A. D. Zorin, Laboratory Rectification Column for Separating More-Volatile Impurities - 560
- Ditsent, V. E., Polarographic Analysis of Anthraquinone Mixtures - 1060
- Dvinianina, M. P., see Alekseev, N. F. - 317
- Dlugach, R. E., see Reznik, B. E. - 1565
- Dmitrieva, V. N., see Bezuglyi, V. D. - 1051
- Dmitrieva, V. N., see Bezuglyi, V. D. - 1581
- Dobkina, B. M., see Chernikhov, Iu. A. - 762
- Dobkina, B. M. and T. M. Maliutina, The Spectrophotometric Determination of Cerium in Lanthanum, Neodymium and Praseodymium Specimens - 442
- Dobkina, B. M. and T. M. Maliutina, Determination of Tantalum by Different Spectrophotometry - 1466
- Dobrov, V. P., see Shirenko, N. S. - 556
- Dolmatov, E. G. and I. I. Sitnikov, Method of Measuring the Speed of the Plastic Flow of Steel When Elongated by Means of Explosion - 708
- Drits, V. A., On a Method for a Quantitative X-ray Structural Phase Analysis - 637
- Droblazko, T. T., An Etching Bath for Metal Samples - 1419
- Droblazko, T. T., Electromechanical Mortar for Comminuting Radioactive Powders - 1422
- Drozd, M. S., A Ball Test Which is Independent of the Conditions of Testing - 72
- Drozd, M. S., The New Hardness Number and the Mechanical Properties of Steel - 1117
- Dudarchik, V. N., S. S. Uzarovskii and P. A. Cherniavskii, Automatic Device for Exact Measurement of Viscosity of a Liquid - 1411
- Dutov, B. P., see Ashkenazi, E. K. - 1251
- Duzhanskii, I. N., Volume - Adsorption Method for Determining the Specific Surface of Carbon Black - 1600
- Efremov, V. Ia. and E. I. Popov, Apparatus for Washing of Mercury - 1279
- El'gard, A. M. and S. K. Ginzburg, Checking the Quality of Heat-Treatment of Steel Parts Using the Magnetic Permeability at Medium Fields - 96
- Elinson, M. M., Gas Analyzer for the Rapid Determination of Hydrocarbons in Natural Gas - 1267
- Elinson, S. V. and M. S. Limonik, Determination of Magnesium in Zirconium by Ion Exchange Chromatography - 1569
- Emilin, B. L., see Gasik, M. I. - 1349
- Epik, P. A. and A. I. Orochko, The Determination of Chlorites and Hypochlorites in Mixtures - 467
- Epshtein, S. L., see Aleksandrov, V. S. - 1287
- Erastov, D. P., Apparatus for Fluorescence Analysis With Three Ranges of Excitation Luminosity - 1288
- Ergardt, N. N., see Gordov, A. N. - 1605
- Erko, V. F., see Lifshits, E. V. - 1621
- Ermakov, V. S., A Rotating Fitting for the MIM-7 Metallurgical Microscope - 110
- Ermakov, V. S., Color Metallography in Polarized Light - 936
- Ershova, A. P., see Korzh, P. D. - 39
- Evgenev, V. E., see Viktorov, S. P. - 1282
- Evko, A. V., Rapid Method of Determining Magnesium in Alloys of Mg + FeSi - 147
- Evko, A. V., Steelometric Analysis of Some Types of Bronze - 1623

- Faerman, D. V. and L. P. Ol'shanskii, A Galvanometric Method for Controlling the Oxidation of Paraffin - 1057
- Fainberg, S. Iu., A. A. Bliakman and L. N. Filatova, A Rapid Method for the Determination of Copper, Lead and Zinc in Polymetallic Ores and Their Enrichment Products - 15
- Fainberg, S. Iu. and L. N. Filatova, The Complexometric Determination of Copper in Ores and the Products of Ore Concentration - 599
- Fakidov, I. G., see Buzynov, A. E. - 1100
- Fal'kevich, E. S., see Natapov, B. S. - 1130
- Famil'tsev, D. N., see Popereka, M. Ia. - 1293
- Fateeva, G. Ia., A Spectral Method for the Determination of Nickel in Cobalt Compounds and Cobalt in Nickel Compounds - 520
- Fedash, N. P., see Usatenko, Iu. I. - 1309
- Fedorov, G. D. and K. I. Zablonskii, Stands for Testing Pneumatic Drives and Auxiliary Mine Hoists - 559
- Fedorov, G. V., see Palatnik, L. S. - 857
- Fedorova, L. M., see Polilul', Iu. P. - 524
- Fedorovskii, A. E., A New Instrument for Measuring Automatically the Logarithmic Damping Ratio (of Internal Friction) - 1657
- Fedotov, N. A., A Stable Glass Electrode for pH Measurements at Temperatures up to 100°C - 562
- Felgin, L. M., A Machine for Friction Tests at High Temperatures - 973
- Felgina, E. M., see Busev, A. I. - 292
- Fel'dman, L. S., G. A. Prokhorov and T. A. Bronnikova, Photoelectric Analyzer for the Analysis of Aluminum Alloys - 875
- Fesenko, E. P., Foreign Automatic Gas Analyzers Based on the Chromatographic Method of Analysis - 120
- Fesenko, N. G., The Trilonometric Determination of Iron in Ores and Agglomerates - 22
- Fetisov, D. V., see Miliutin, V. I. - 92
- Fetisov, N. G., A Semiautomatic Device for Placing Insulator Beads Over Thermocouple Electrodes - 1420
- Flalkov, A. S. and Ia. G. Davidovich, The Use of a Conical Plastometer for Controlling the Quality of Mixtures of Carbon Compositions - 261
- Figurovskii, N. A. and T. B. Gavrilo, New Centrifugal Instrument for Sedimentometric Analyses - 1545
- Filatova, L. N., see Fainberg, S. Iu. - 15
- Filatova, L. N., see Fainberg, S. Iu. - 599
- Fillimonov, L. N. and V. O. Khandros, Photoelectric Spectral Analysis Abroad - 804
- Fillimonova, E. N., see Prigorovskii, N. I. - 1525
- Finkelshtein, Ia. B., Liquid Batch-Feeder With an Automatic Retarder for the Beginning of Flow - 567
- Finogenov, G. N., Organic Glass Tests with Repetitive Loading at Low Frequencies - 1634
- Fishman, I. S., Spectral Analysis by Calculating Calibration Graphs - 504
- Filantikova, G. V., see Nazarenko, V. A. - 746
- Filantikova, G. V., see Nazarenko, V. A. - 898
- Flomina, E. E., see Leskov, G. I. - 1282
- Fomin, G. T., Method of Investigating the Mechanism of the Conversion of Pearlite into Austenite at Increased and High Rates of Heating - 54
- Fraktor, A. M., see Popereka, M. Ia. - 1293
- Frantsuzova, T. A., Apparatus for the Determination of Carbon Monoxide - 1270
- Fratkina, G. P., Quantitative Determination of Aluminum and Titanium in Low-Pressure Polyethylene by Means of Spectrographic Analysis - 1501
- Frenkel', M. B., Rapid Method of Determining the Mechanical Strength of Granules - 192
- Frishman, T. A., see Ginzburg, V. I. - 1058
- Friziuk, F. P., see Kremer, V. A. - 1574
- Frumer, L. A. and N. M. Chistov, A Device for Measuring Stress in Electrodeposits - 266
- Frusin, K. S., see Oopereka, M. Ia. - 1293
- Fuks, G. I. and L. V. Timofeeva, Method of Measuring the Aggressiveness of Lubricating Oils at Moderate Temperatures - 482
- Gaidadymov, V. B. and L. I. Il'ina, Lead Determination in Lead Glass by β -Radiation Reflection - 487
- Gandel'sman, I. L., see Vostrov, G. A. - 1417
- Garber, R. I. and A. I. Kovalev, Investigation of the Temperature Dependence of the Modulus of Elasticity of Iron - 539
- Garf, M. E., see Serensen, S. V. - 1160
- Gasik, M. I. and B. I. Emlin, Rapid Analysis of Carbon-Free and Low Carbon Ferrochrome for Its Silicon Content by the Thermal EMF Method - 1349
- Gavrilin, V. I., see Borok, B. A. - 1285
- Gavrilo, T. B., Photoelectric Readout Appliance - 994
- Gavrilo, T. B., see Figurovskii, N. A. - 1545
- Gefer, E. L., A Method for the Analysis of Certain Acyl Chlorides of Phosphoric Acid - 779
- Gel'd, P. V., see Riabov, R. A. - 343
- Generozov, B. A., International Conference on Standardization - 881
- Genshaft, S. A., see Ionova, K. I. - 518
- Gerasimov, V. V., A. I. Gromova and A. A. Sabinin, An Autoclave for Electrochemical Studies at High Temperatures and Pressures - 1548

- Getsov, L. B., Methods of Testing Thermally Stable Materials Under Conditions of Variable Temperature and Stress - 1378
- Giatsintsov, E. V., see Serensen, S. V. - 363
- Gibalo, I. M. and V. M. Byr'ko, The Radiometric Titration of Zinc and Cadmium Using Potassium Ferrocyanide - 314
- Gindin, E. I. and V. G. Prokhvatilov, A Device for High-Temperature X-ray Photography - 103
- Gintsberg, Ia. S., A Machine for the Investigation of the Relaxation of Metals Subjected to Torsional Stresses - 969
- Ginzburg, S. K., see El'gard, A. M. - 96
- Ginzburg, V. I. and T. A. Frishman, A Volt-Amp Method for the Determination of Phenol in Isopropylbenzene Using a Rotating Platinum Anode - 1058
- Gladshstein, L. I., P. I. Sokolovskii and A. V. Rudchenko, Study of the Mechanical Aging of Steel by the Method of Combined True-Tension - 1367
- Gladyshev, V. P., The Colorimetric Determination of Selenium and Tellurium in Dusts from Lead Manufacture - 306
- Glazkov, V. A. and P. N. Kodochigov, The Use of the "Tiss" Radiometer for Detecting β -Radiation - 1152
- Glazov, V. M., Use of the Viscosity Method for the Study of the Kinetics of Slow Reactions in Intermetallic Compounds Formation - 922
- Glazova, A. I., see Blok, N. I. - 140
- Glazov, V. M., see Petrov, D. A. - 32
- Glebova, G. D. and G. N. Kosheleva, Indicator Papers - 1063
- Glebova, L. I., see Kaganev, M. G. - 270
- Glebova, T. V., Method of Testing the Strength of Adhesion of Silicate to Organic Glass - 1637
- Glushko, M. F., Method of Testing Nonrotating Wire Hoisting Ropes - 225
- Gluskin, L. Ia., see Andreev, I. A. - 958
- Glotova, A. N., see Losev, N. F. - 698
- Gofner, A. M., see Chernashkin, V. G. - 1237
- Gol'bert, K. A. and A. V. Alekseeva, The Determination of Admixtures of Propylene in Ethylene and Ethane-Ethylene Fractions - 776
- Golland, S. M. and N. V. Adon'eva, The Determination of the Concentration of Cyanide in Coke Oven Gases - 608
- Golitsyn, A. G., see Zhukhovitskii, A. A. - 927
- Golovina, V. A., see Kreimer, S. E. - 289
- Golovistikov, I. I. and V. V. Chebotarevskii, The Use of Infrared Heating in the Determination of the Hardness of Color-Varnish Coatings - 1408
- Gorbatenko, V. E., see Azarov, K. P. - 1153
- Gorbenko, M. S., see Konlakhin, I. R. - 711
- Gordeeva, M. N., see Morachevskii, Iu. V. - 888
- Gordov, A. N. and N. N. Ergardt, Some Causes of Errors in the Measurement of Temperatures by Means of Thermocouples - 1605
- Gorezko, P. A., The Question of Comparison of Brinnell and Meyer Hardness - 1633
- Goriushina, V. G. and E. Ia. Birlukova-Gallls, Colorimetric Determination of Small Amounts of Phosphorus in the Presence of Large Amounts of Vanadium - 456
- Gorovits, N. N., see Zelikman, A. N. - 1050
- Graf, M. É. and P. M. Ruban, Determination of Dynamic Errors When Testing Fatigue in Bending - 1532
- Grebennikova, D. T., see Ivollov, A. S. - 657
- Grell', E. G., see Vinogradov, Iu. G. - 492
- Gribova, E. A. and A. S. Levin, Separate Determination of Sulfuric Acid and Sulfonic Acids by Titration in Nonaqueous Solvents - 1485
- Gridnev, V. N., see Belotskii, A. V. - 724
- Grigor'ev, A. I., A. V. Novoselova and K. N. Semenenko, Determination of the Molecular Weights of Dissolved Substances by the Method of Diffusion Through Porous Glass Plates - 200
- Grigorovich, V. K., On the Determination of Hardness by the Scratching Method - 1124
- Gritsenko, A. P., Method of Measuring the Densities of Liquids and Their Vapors at Elevated Temperatures and Pressures - 198
- Gromova, A. I., see V. V. Gerasimov - 1548
- Gronsberg, E. Sh., The Determination of Benzaldehyde in Air - 476
- Gudymenko, K. F., M. U. Belyi and M. A. Skachko, A Luminescence Method for the Control of Alkaline Tinning Baths - 1188
- Gugunishvili, G. G., Methods of Determining the Adhesive Properties and the Fatigue Strength of Thin Electrolytic Antifriction Coatings - 372
- Gullaev, V. N., Method of Determining the Strength of Oxide Films - 1375
- Gullaev, V. N. and A. V. Ratner, Attachments for the Creep Testing of Metals in Working Media - 244
- Gullaev, V. N., see Ratner, A. V. - 869
- Gur'ev, S. D. and N. F. Saraeva, Colorimetric Determination of Tin in Metallic Lead by Means of Phenylfluorone - 1324
- Gurvich, A. K., The Development of an Ultrasonic Device for the Inspection of Welds - 383
- Gur'vits, S. S., Measures for the Protection of Personnel Working with Radioactive Substances - 1553

- Gutkina, R. I., The Spectrochemical Determination of Impurities in Very Pure Metallic Zinc - 828
- Gyrdymov, Iu. A., see Khokhlov, G. D. - 499
- Huang Pung-Li, A New Double-Arc Generator for Spectrochemical Analysis - 390
- Iablonik, L. M., Ultrasonic Control of the Adhesion of Babbitt to the Base of Sectional Bushes and Large Bearings - 181
- Iagn, Iu. I. and O. A. Shishmarev, Study of the Plastic Strain in Thin-Walled Metal Tubes Under Combined Tension and Torsion - 1373
- Iakimets, E. M., see Stunkel', T. B. - 20
- Iakobson, L. G., see Alekseev, N. F. - 317
- Iakovlev, P. Ia., see Kharlamov, I. P. - 1037
- Iakovlev, P. Ia. and G. P. Razumova, The Photocolorimetric Orthophenanthroline Method of Determining Vanadium in Chromium Metal - 1564
- Ianchishin, F. P., see Iatsluk, A. I. - 247
- Iankovskaia, L. V., see Iankovskii, V. R. - 605
- Iankovskii, V. R. and L. V. Iankovskaia, A Method for the Determination of Boric Oxide - 605
- Ianovskii, I. I., see Kirnosov, V. I. - 1297
- Ianushevskaja, Zh. F., see Kurmanov, M. I. - 100
- Iatsimirskii, K. B. and I. I. Alekseeva, Spectrophotometric and Kinetic Methods of Determining Molybdenum in Alloys - 1561
- Iatsluk, A. I., V. T. Stepurenko and F. P. Ianchishin, Attachment for Determining the Fatigue Strength of a Metal in Active Liquid Media - 247
- Ievlev, A. P., see Rubenshtein, R. N. - 1260
- Il'ina, L. I., see Gaidadymov, V. B. - 487
- Il'inskiĭ, G. A., Graph for Evaluating the Value of the Microhardness, Determined by the Indentation Method - 413
- Illarionov, V. V. and R. P. Ozerov, A More Accurate Method for Determining Thermal Effect Temperatures from Thermograms - 490
- Ionaĭtis, S., On the Determination of the Impact Splitting Resistance of Wood in the Direction of the Grain - 88
- Ionova, K. I. and S. A. Genshaft, A Method for the Spectral Analysis of Magnesium in Cast Iron and Graphite - 518
- Iudelevich, I. G. and V. G. Kovaleva, The Spectrographic Determination of Small Impurities in Lead, Bismuth and Tin - 521
- Iudelevich, I. G. and V. G. Kovaleva, Spectrographic Determination of Impurities in Elementary Tellurium - 851
- Ivanlutin, M. I., see Busev, A. I. - 292
- Ivankova, A. I., see Shcherbov, D. P. - 751
- Ivankova, A. I., see Shcherbov, D. P. - 1476
- Ivanov, A. P., see Danilov, T. L. - 1365
- Ivanova, A. N., see Mustafin, I. S. - 1182
- Ivoilov, A. S. and L. L. Denisova, Method of Determining the X-ray Mass Absorption Coefficient of Powdered Materials and of Solutions - 633
- Ivoilov, A. S. and D. T. Grebennikova, The Use of Microradiography for the Investigation of Mineral Raw Materials - 657
- Ivonina, O. M., see Pshenitsyn, N. K. - 1315
- Izraelit, G. Sh., see Pozin, A. A. - 1009
- Kadobnova, N. V., see Danilov, Iu. S. - 1403
- Kachkovskaia, E. T., see Teodorovich, O. K. - 56
- Kaganev, M. G. and L. I. Glebova, Apparatus for Determination of Moisture Content in Liquid Carbon Dioxide - 270
- Kaistra, L. G., see Krichmar, S. I. - 1034
- Kalinichenko, I. I., The Trilonometric Determination of Nickel in Alloy Copper Without Separation of the Latter - 294
- Kalinichenko, I. I., see Kalinchenko, L. P. - 19
- Kalinchenko, L. P., N. P. Strakhov, and I. I. Kalinichenko, A New Color Reaction for Detecting and Determining Beryllium by Means of Chromeblue K - 19
- Kalinskii, Ia. M., The Spectral Analysis of the Silicon, Aluminum and Iron Content in Metallic Chromium - 852
- Kalinskii, Ia. M., see Shaeovich, A. B. - 1616
- Kalvoda, Robert, The Use of Oscillographic Polarography in Quantitative Analysis. Microanalytical Determination of Certain Metals - 1451
- Kaminskaia, N. P., see Buianov, N. V. - 1210
- Kaplan, B. Ia. and E. N. Ulanovskii, A Visual Square-Wave Polarograph - 1542
- Kaputovskaia, G. V., see Markovskii, L. Ia. - 1186
- Karabash, A. G., see Peizulaev, Sh. I. - 816
- Karashenko, V. A., Preparation of Copper-Constantan Thermocouples for Precise Temperature Measurements - 1414
- Karpov, V. I., see Prishchepa, M. P. - 1651
- Kartseva, A. M. and T. A. Vihoreva, The Control of Gas Saturation in Copper-Base Alloy Melts - 464
- Kasatkin, B. S., Detection of Low-Carbon Steel Microstructure by Electrolytic Polishing and Etching - 943
- Kasatkin, E. V., An Amperometric Method for the Determination of the Concentration of Ozone in a Gas Stream - 461

- Kashkovskaia, E. A. and I. S. Mustafin, Determination of Aluminum With Al'beron Reagent - 1319
- Kashkovskaia, E. A., see Mustafin, I. S. - 1182
- Kataev, G. I., Apparatus for Measuring with Greater Accuracy the Dependence of Elastic Moduli and Damping Decrement on Temperature - 1389
- Kats, Sh. N., The Use of IP-4 Machines for Fatigue Tests of Specimens With a Complex Stressed Condition - 972
- Kats, Sh. N., see Zakharov, A. A. - 538
- Kazantsev, V. A., The Effect of Voltage on the Contrast of X-ray Spectrum Lines - 1597
- Kel'man, F. N., A More Rapid Method for the Determination of Selenium in the Materials Encountered in Sulfuric Acid Production - 1183
- Kerimbekov, A. V., see Mamedov, K. P. - 395
- Khadeev, V. A., see Zhdanov, A. K. - 135
- Khandros, V. O., see Filimonov, L. N. - 804
- Kharlamov, I. P., P. Ia. Iakovlev, and M. I. Lykova, Spectrophotometric Determination of Niobium in Alloys - 1037
- Khashafian, A. Ia., New Spectral Instruments - 980
- Khazanov, E. E., see Marmer, E. N. - 108
- Kheiker, D. M., Phase Analysis by Means of X-ray Diffractometers - 1199
- Kheiker, D. M., see Zevin, L. S. - 716
- Kheim, E. A., Relaxation of Stresses in Metals (Ia. S. Gintsburg) - 1021
- Khidekel, M. L., see Patrikeev, V. V. - 1278
- Khlebnikova, V. V., see Zykov, D. D. - 238
- Khokhlov, G. D. and Iu. A. Gyr'dymov, Method of Determining the Softening Temperature of Ores and Agglomerates - 499
- Khizman, I. A., V. E. Bonvech and E. M. Beizerov, Methods of Determining Acid, Ester and Iodine in Brown Coal Bituminous Substances - 781
- Khudiakova, T. A., Automatic Chronoconductometric Method for Analysis of a Mixture of Sulfuric and Acrylic Acids and Ammonium Bisulfate - 1326
- Kiperman, S. L. and I. R. Davydova, A Technique for Measuring Out Pyrophoric Catalysts - 237
- Kir'ianov, A. K., Container for Simultaneous Storage of Several Gamma-Radioactive Substances - 405
- Kirnosov, V. I. and I. I. Ianovskii, Machines and Instruments for Testing Materials - 1297
- Kirvalidze, N. S. and I. Iu. Korobochkin, Simplified Piercing Test for Metals - 954
- Kiselev, A. V. and I. V. Shikalova, Determination of the Specific Surface of Activated Charcoal by Adsorption from Solution - 1197
- Kiselev, V. E., see Svistunova, Z. V. - 1217
- Kiseleva, L. V., see Busev, A. I. - 10
- Kislenskii, V. V., T. K. Vorot'nik and T. I. Tiutunnikova, Simple Flame Photometer Using Filters - 991
- Kisin, B. I., Application of Composite Piezoelectric Resonators for Determining Moduli of Elasticity and Internal Friction in Solid Bodies - 1529
- Klein, A. L. and P. V. Umrykhin, On the Determination of the Spalling Index of Limestones from Various Deposits - 945
- Klemeshov, G. A., F. L. Panasenko, F. A. Smolenskii and S. M. Shvarts, Typical Radioactive Isotope Laboratory - 427
- Kletchenkov, I. I., Method of Determining the Degree of Adhesion of Lacquer Coatings to Metallic Surfaces - 1503
- Kliachko, I. R. and A. D. Vinogradova, Determination of the Zinc Content in Nickel Electrolytes - 607
- Kliachko, Iu. A., Mendeleev and Modern Science - 1433
- Kliachko, Iu. A., M. M. Shapiro, V. S. Mal'tseva and V. A. Mil'chev, Investigations Relating to the Theory of Electrochemical Phase Analysis of Alloys - 1441
- Kliuchnikov, A. D., On the Question of Instruments for the Investigation of the Thermal Processes in Metallurgical Furnaces - 1003
- Kliushin, G. A., The Determination of Copper in Steel by the Spectral Method - 515
- Kmito, E. I. and A. A. Kmito, Determination of the Electrical Conductivity of Oxide Films on Aluminum in a Damp Atmosphere - 340
- Kmito, A. A., see Kmito, E. I. - 340
- Kniasev, V. F., Application of a Microfurnace to the Study of Wetting Phenomena - 1416
- Kocherzhinskii, Iu. A., The Problem of the Quantitative Assessment of the Degree of Transformation in Steel from Dilatometer Curves - 494
- Kochnov, V. E., Study of Deformation Processes with the Polarizing Microscope - 411
- Kocho, V. S., A New Method of Determining the Degree of Blackness of Solid Bodies - 51
- Kodochigov, P. N., see Glazkov, V. A. - 1152
- Kogaev, V. P., see Serensen, S. V. - 363
- Kogan, I. B., The Quantitative Determination of Benzanthrone in Air - 328
- Kogan, I. B., The Determination of Phthalic Anhydride in Air Using Derivative Polarograms - 474
- Kogan, Ia. I., The Use of Nephelometers for Studying Aerosols - 230
- Kogan, Ia. I., T. A. Pfeifer and V. V. Korsakov, An Aerosol-Sedimentation Method for Determination of the Particle-Size Distribution in Powders and Dust Deposits - 1350

- Koginova, A. M., see Maksimychева, Z. T. - 1014
 Kokhova, G. M., see Blok, N. I. - 140
 Kol'chenko, A. V. and A. A. Silin, A Visual Method for Investigating Abrasion of Rubber-Lined Bearings - 1631
 Kolesnikov, D. G., see Konev, F. A. - 425
 Kolesnikov, N. A., see Konev, F. A. 425
 Kolesnikov, A. F., see Prishchepa, M. P. - 1651
 Kolosov, I. E., Form of Specimens for Fatigue Testing of Hardened Steels - 90
 Kolpashnikov, A. I., see Afanas'ev, Ia. E. - 706
 Komissarenko, V. S., The Determination of Lithium and Sodium in Alkalies by a Spectral Method - 522
 Kondrat'eva, L. I., see Peizulaev, Sh. I. - 816
 Konenkov, K. S., see Slezinger, I. I. - 1401
 Konev, F. A., N. A. Kolesnikov, and D. G. Kolesnikov, Automation of the Filtration Process of Injection Solutions - 425
 Konlakhin, I. R., L. M. Sedokov, and M. S. Gorbenko, Determination of Effective Forces by Means of a Conical Crusher Gage - 711
 Konkin, V. D., Rapid Determination of Calcium Oxide in Fluxed Agglomerates, Limestones, Dolomites, and Slags - 1311
 Kononova, K. V., see Davidovich, Ia. G. - 60
 Kononovich, L. I., see Abramov, A. Ia. - 1073
 Konovalov, G. S. Pipet for Measuring Out Poisonous and Radioactive Solutions - 1422
 Konovalov, V. G., see Lifshits, E. V. - 1621
 Konovalov, V. L., see Krupkin, A. I. - 1578
 Kopeikin, Iu. A., see Chesnokov, O. F. - 1625
 Kornev, T. N. and B. M. Akhmedov, Installation for Field Tests on the Endurance of Drill Pipes Used in Geological Prospecting - 1393
 Korobochkin, I. Iu., see Kirvalidze, N. S. - 954
 Korolev, B. I. and A. A. Bystrov, A Fluorescence Leak-Detection Method for Electrical Vacuum Equipment - 107
 Korotkov, V. F., see Bulanov, N. V. - 792
 Korsakov, V. V., see Kogan, Ia. I. - 1350
 Korshunov, I. A., Application of Polarography in Organic Analysis - 610
 Korzh, P. D. and A. P. Ershova, Thermoelectric Method of Determining the Carbon Content of Steel During the Fining Process - 39
 Kosevich, V. M., see Palatnik, L. S. - 477
 Kosevich, V. M., see Palatnik, L. S. - 857
 Kosheleva, G. N., see Glebova, G. D. - 1063
 Kos'kun, G. I., see Pavlovskaya, N. T. - 941
 Koslovskii, M. T., see Bukman, S. - 445
 Kosolapova, T. Ia. and E. E. Kotliar, A Rapid Method for the Total Analysis of Silicon Carbide - 1576
 Kossovskii, L. D., see Vydrin, V. N. - 87
 Kostareva, F. A., see Peizulaev, Sh. I. - 816
 Kostianovskaya, N. M. and M. V. Babaev, The Determination of Copper, Bismuth, Tin, Antimony, Arsenic, and Lead in Ferrotungsten - 280
 Kostianovskaya, N. M., see Babaev, M. V. - 1312
 Kostin, N. M., see Pavlushenko, I. S. - 566
 Kostlukov, N. S., see Avertikov, V. G. - 400
 Kostrikin, Iu. M. and V. A. Rumiantseva, The Determination of Free Sulfuric Acid in Boiler Deposits - 470
 Kostylev, Iu. V. and G. A. Batranina, The Technique of Applying Fine Grids to Determine Strains in Models - 111
 Kotelkov, V. N., Measurement of the Resistance of Electroconductive Powders During the Process of Pressing - 1220
 Kotliar, E. E., see Kosolapova, T. Ia. - 1576
 Kotov, P. I., see Serensen, S. V. - 1221
 Kovalenko, S. I., see Liulichев, A. N. - 1415
 Kovalenko, T. V., see Bulanov, N. V. - 792
 Kovalenko, V. D., The Spectral Analysis of Copper-Manganese Alloys - 513
 Kovalev, A. I., see Garber, R. I. - 539
 Kovaleva, V. G., see Iudelevich, I. G. - 521
 Kovaleva, V. G., see Iudelevich, I. G. - 851
 Kozlov, L. A., see Serensen, S. V. - 1160
 Kozlov, L. A., see Serensen, S. V. - 1506
 Kozlova, M. N., see Blok, N. I. - 1446
 Kraftmakher, Ia. A., A. N. Liulichев and D. M. Shakhtin, An Investigation of the Work of Laboratory Mixers by Means of Magnetic Indicators - 1001
 Krasovskaya, E. A., see Shpeizman, V. M. - 196
 Krauz, L. S., see Peizulaev, Sh. I. - 816
 Kreimer, S. E. and L. P. Butylkin, Determination of Copper Using Lead Carbamate - 127
 Kreimer, S. E., N. V. Tuzhilina, V. A. Golovina and R. A. Tiabina, Determination of Cobalt and Cadmium in High-Purity Nickel - 289
 Kremer, V. A., E. I. Vail', F. P. Frizluk and L. S. Sonchik, An Express Method for the Analysis of Lead and Zinc in Bronzes by Potentiometric Titration Based on Precipitation of these Metals as their Sulfides - 1574
 Krichmar, S. I. and L. G. Kaistra, A Radiometric Method for Determination of Potassium in Mineral Fertilizers - 1034
 Kriukov, S. N., B. S. Bokshtein, T. I. Degal'tseva and A. S. Zhukhovitskii, Analysis of Complex Systems by Reflections of β -Radiation - 1438
 Kriukov, S. N., see Zhurkhovitskii, A. A. - 1193
 Kriventsov, V. L., see Markman, A. L. - 159

- Kroshkin, A. A., see Danilov, T. L. - 1365
- Krotkova, E. E., see Pogodina-Alekseeva, K. M. - 532
- Kruglova, T. E., see Morachevskii, Iu. V. - 888
- Krupin, A. V., see Prigorovskii, N. I. - 1550
- Krupkin, A. I. and V. L. Konovalov, Maintenance of Temperature Conditions During the Colorimetric Determination of Potassium as $K_2Pb[Ni(NO_2)_6]$ - 1578
- Krylova, A. R., see Pridantsev, M. V. - 216
- Ksandopulo, G. I. and D. P. Shcherbov, Flame Photometric Determination of Strontium in Silicates and Carbonates Using Liquid Light Filters - 1566
- Kudelia, E. S., The Determination of Carbon in Nickel-Chrome Steels by the Spectral Method - 516
- Kudelia, E. S., The Question of the Use of Carbon Electrodes in the Spectral Analysis of Steels - 849
- Kulik, A. A., The Determination of the Range and the Standardization of the Sensitivity of an Ultrasonic Defectoscope - 331
- Kupperberg, L. S. and V. V. Bolotnyi, Laboratory Installation for the Preparation of Ozone - 1271
- Kurbatov, V. M., Device for Measuring Small Deformations During Compression Tests on Rock Samples - 1407
- Kurbatov, V. M., see Orlov, R. V. - 1396
- Kurmanov, M. I., I. V. Navrotskii and Zh. F. Ianushevskaya, An Apparatus for Studying the Damping of Oscillations in Metals - 100
- Kuteinikov, A. F., The Use of Arsenazo Reagent for the Determination of Rare Elements - 1171
- Kuz'menko, V. A., Determination of Elastic Constants of Materials by Means of Longitudinal Ultrasonic Vibrations - 1536
- Kuz'menko, V. S. and A. S. Bogorad, A Portable Viscosimeter - 1007
- Kuznetsov, B. E., see Avetikov, V. G. - 400
- Kuznetsov, E. S. and O. V. Sokolov, Use of Replicas for Measuring Component Wear - 873
- Kuznetsov, V. I., A Rational Range of Analytical Methods - 1487
- Kuznetsov, V. I., L. M. Budanova, and L. A. Nenasheva, The Photometric Determination of Magnesium Using Phenazo Reagent - 1173
- Kuznetsov, V. I., G. I. Malofeeva and I. V. Nikol'skaya, The Acid Decomposition Method for Determination of Thorium and Uranium in Sandstones - 1308
- Kuznetsova, V. G., see Lukashova, E. N. - 1189
- Labutin, A. L., see Pigulevskii, V. V. - 402
- Lakomkin, I. G., A Method of Determining Phosphoric Acid in Superphosphates by Means of Ion Exchangers - 764
- Lapitskii, A. V., An. N. Nesmelanov and S. P. Alekhin, Thermostats with Attachment on Top for Determination of Solubility - 1276
- Lashko, A. S. and G. S. Svirskii, High-Temperature Camera for X-ray Photography of Liquid and Solid Bodies - 728
- Lashko, N. F., see Blok, N. I. - 140
- Lashko, N. F., see Blok, N. I. - 1446
- Latkher, K. Kh., see Salun, M. G. - 1571
- Lavrent'eva, N. N., see Alekseev, N. F. - 317
- Lavrov, I. A., see Taits, S. Z. - 1412
- Lazarev, A. I. and V. I. Lazareva, Colorimetric Determination of Titanium in Alloy Steels by the Method of Additions - 144
- Lazarev, A. I. and V. I. Lazareva, The Use of Ascorbic Acid in the Determination of Molybdenum by the Thiocyanate Method - 896
- Lazareva, V. I., see Lazarev, A. I. - 144
- Lazareva, V. I., see Lazarev, A. I. - 896
- Lebedev, O. L. and A. M. Redoshkin, Device for the Direct Addition of Liquids Under Pressure - 1425
- Lebedev, V. V., An Apparatus for Investigating the Velocity of Reactions with Automatic Recording of Kinetic Curves - 420
- Lebedeva, N. V., see Nazarenko, V. A. - 6
- Lebedeva, T. A., see Vendt, V. P. - 915
- Lepin, G. F., Local Character of Plastic Deformation in A Ring Specimen - 952
- Lepin, G. G., see Odintsov, I. A. - 947
- Leskov, G. I. and E. E. Flomina, An Electrical Moisture Indicator - 1282
- Levin, A. S., see Gribova, E. A. - 1485
- Levin, G. M., The Determination of the Thermo-Physical Properties of Rubber and Slag Wool - 496
- Levit, R. M. and Ia. Z. Sorokin, Refractometric Analysis in the Control of the Manufacture of Carbon Disulfide - 43
- Liaschenko, B. G., Neutron Structural Analysis of Metals and Alloys (Review) - 660
- Liberman, L. Ia., Parametric Methods of Assessing the Long-Time Rupture Strength of Heat-Resisting Alloys (A Survey) - 1638
- Liberman, M. V., Determination of Magnesium in the Presence of Aluminum - 146
- Lifshits, E. V., V. G. Konovalov and V. F. Erko, Spectrographic Analysis of Binary Alloys of Iron and Chromium - 1621
- Likhmitskii, G. V., see Berlad, V. P. - 242
- Limonik, M. S., see Elinson, S. V. - 1569

- Lindstrom, V. R., see Bulanov, N. V. - 792
- Lipis, L. V., Spectral Analysis by the Vaporization Method - 830
- Lisitsyn, V. D., On the Relationship Between the Macro- and Microhardness of Metals - 528
- Lisitsyn, V. D., Determination of the Degree of Local Deformation According to Microhardness - 1627
- Litvin, A. B., Tension Diagrams for Steel Under Instantaneous Loading - 1370
- Liulichev, A. N., F. I. Chuprinin, and S. I. Kovalenko, Apparatus for Determination of the Thermal-Expansion Coefficient of Refractory Materials - 1415
- Liulichev, A. N., see Kraftmakher, Ia. A. - 1001
- Livshits, L. S. and A. S. Rakhmanov, On the Determination of the Impact Strength of Steel at Low Temperatures - 701
- Lokotilov, A. A., see Tomashov, N. D. - 480
- Lomakina, L. N. and P. K. Agasian, A Combined Electrode for Potentiometric Microtitration - 234
- Lomakina, L. N., N. I. Tarasevich and P. K. Agasian, The Micropotentiometric Determination of Silver Using Triazoles - 300
- Lopashev, B. P., see Borok, B. A. - 1285
- Lopatko, I. F. and G. I. Usoskin, A Method for Thickness Measurement by Means of an Ultrasonic Pulse Thickness-Measuring Device - 1601
- Losev, N. F. and A. N. Glotova, Quantitative Determination of Zirconium in Ores by Means of Fluorescent X-ray Spectra - 698
- Loshkarev, A. G., A Nondestructive Absolute Method for the Analysis of Metals and Alloys - 1048
- Loshkareva, G. V., The Determination of Iron, Cobalt and Copper in Nickel Without Cutting Samples - 910
- Lukashova, E. N., N. M. Baram and V. G. Kuznetsova, A Method for the Analysis of Copper Fluoborate Electrolyte - 1189
- Luk'ianenko, L. P., see Mal'tsev, V. F. - 603
- Lukin, I. I., New Photoelectric Colorimeter FEK-56 - 228
- Lur'e, Iu. Iu. and T. V. Zaglodina, Determination of Antimony in Lead of High Purity - 130
- L'vovskaia, V. P., see Borok, B. A. - 1285
- L'vovskii, M. Ia. and I. A. Smilian, A New Method for Testing the Resistance to Thermal Shock of Heat-Resistant Sheet Materials - 213
- Lygin, V. I., Use of Carbon Replicas in the Investigation of Porous Materials - 351
- Lykova, M. I., see Kharlamov, I. P. - 1037
- Lytkin, I. A., see Zykov, D. D. - 238
- Malboroda, I. K., The Question of Increasing the Reproducibility of Spectral Analysis - 844
- Makarova, E. V., see Zykov, V. I. - 235
- Maksimychcheva, Z. T. and N. Abdusaliamov, The Quantitative Determination of Potassium as KBF_4 - 457
- Maksimychcheva, Z. T., Sh. T. Talipov and A. M. Koginova, The Volumetric Determination of Fluorine in Borofluorides - 1014
- Maksutova, T. D. and S. P. Shikhobalov, Fabrication of Complex Models for Optical Stress Investigations - 250
- Malevskii, Iu. B., A Reagent for Electrolytic Polishing of Chrome-Nickel Austenitic Alloys - 109
- Malevskii, Iu. B., see Medovar, B. I. - 222
- Maliavkin, L. P., see Abramson, I. S. - 785
- Malinina, V. I. and V. P. Varlamov, A New Method of Analyzing Petroleum and Bitumens Without Preliminary Ashing - 1502
- Maliutina, T. M., see Dobkina, B. M. - 442
- Maliutina, T. M., see Dobkina, B. M. - 1466
- Malkin, V. I., Conference on the Use of Radioactive Isotopes in Ferrous Metallurgy - 883
- Malkov, S. I., B. D. Nessonov, V. A. Matveev and G. D. Nessonova, Silicon-Iditol Lacquer For Wire Strain-Gauges Working Under Conditions of High Humidity - 1296
- Malofeeva, G. I., see Kuznetsov, V. I. - 1308
- Mal'tsev, V. F. and L. P. Luk'ianenko, The Photo-colorimetric Determination of Silicon in Fluxes Used for Electric Welding - 603
- Mal'tseva, V. S., see Kliachko, Iu. A. - 1441
- Mamedov, K. P. and A. V. Kerimbekov, An X-ray Camera for Precise Angle Measurements - 395
- Mandel'berg, I. R., see Zarinskii, V. A. - 149
- Markman, A. L. and V. I. Kriventsov, Determination of the Concentration of "Miscells" - 159
- Markova, A. I., The Purification of Dithizone for the Determination of Micro-Quantities of Metals - 1190
- Markova, L. V., see Babko, A. K. - 588
- Markovets, M. P. and V. F. Tret'iakov, Method of Determination of Resistance to Warping at High Temperatures - 368
- Markovets, M. P. and V. P. Tret'iakov, Method of Abrasion Testing at High Temperatures - 704
- Markovskii, L. Ia. and G. V. Kaputovskaia, Periodate and Iodate Methods for the Analysis of Elementary Boron and Borides - 1186
- Marmer, E. N. and E. E. Khazanov, Use of Halogen Leak Detectors in Electric Furnace Construction - 108
- Martynenko, A. A., see Popereka, M. Ia. - 1293
- Maslov, V. A., see Vitkovskii, M. N. - 485
- Matveev, L. O., see Mustafin, I. S. - 285

- Matveev, V. A., see Malkov, S. I. - 1296
- Matveeva, N. A., Increase in Sensitivity of the Spectral Analysis of Gases by Concentration in a Direct Discharge - 842
- Mchedlishvili, V. A., Comparative Evaluation of Methods for Determination of Oxide Inclusions in Steel - 1301
- Medovar, B. I. and Iu. B. Malevskii, On the Technique of Preparing Austenitic Steel and Weld Specimens for the Investigation of Gamma to Sigma Phase Change - 222
- Medvedeva, A. S., see Shvaiger, M. I. - 13
- Melamed, Sh. G., see Chernikhov, Iu. A. - 762
- Melamed, Sh. G., see Mislavskaya, F. F. - 511
- Melusova, G. B., Laboratory Method for Preparation of Infrared Radiation Rods - 995
- Merzloukhova, L. V., see Tseitlin, Kh. L. - 1006
- Meshkova, V. M., see Peizulaev, Sh. I. - 816
- Metelina, L. D., see Sukhenko, K. A. - 802
- Mikhailikov, S. V., see Sorokin, P. Ia. - 349
- Mil'chev, V. A., see Kliachko, Iu. A. - 1441
- Miliutin, V. L., D. V. Fetisov, K. K. Raspletin, F. U. Spektor and B. I. Pochtarev, A Simplified Electrostatic Electron Microscope - 92
- Mindukshev, V. F. and Iu. S. Terminasov, Apparatus for Static and Dynamic Compression Testing of Specimens at Low Temperature - 553
- Mindukshev, V. F. and Iu. S. Terminasov, Equipment for X-ray Photography of Samples at Low Temperature - 721
- Mints, R. S., Dilatometers for Metals and Alloys - 1666
- Mirkin, L. I., The Method of Ionization Recording in Applied X-ray Structural Analysis - 643
- Mirnov, L. G., see Danilov, Iu. S. - 1403
- Mishin, B. A., X-ray Camera for Investigating Texture of a Thin Surface Layer of a Flat Sample - 722
- Mislavskaya, F. F. and Sh. G. Melamed, The Determination of Small Amounts of Barium Sulfate in the Paste for Battery Plates - 511
- Mizeri, A. A., An Instrument for Measuring Inside and Outside Surface Hardness - 409
- Mniukh, Iu. V., Camera for Studying X-ray Scattering in the Region of Small Angles - 726
- Mochalov, M. D., see Buzynov, A. E. - 1100
- Mogilevskii, A. N., see Abramson, I. S. - 785
- Moiseeva, G. P., see Zhdanov, A. K. - 135
- Moiseeva, K. A., see Sukhenko, K. A. - 802
- Moldavskii, B. L. and E. V. Nazarova, The Determination of Dicyclohexylamine Nitrite Inhibitor in Paper - 915
- Morachevskii, Iu. V., M. N. Gordeeva and T. E. Kruglova, The Separation of Uranium, Vanadium and Iron by Paper Chromatography - 888
- Morachevskii, Iu. V., and Z. S. Bashun, Separation of Zinc and Cobalt - 17
- Morozov, Iu. N., Provision of Laboratory Machines for Mechanical Testing - 1
- Moskvitin, N. N., see Batrukova, M. G. - 1275
- Mozzhukhin, E. I. and V. I. Shulepov, Use of Carbon and Graphite Heaters in the TVV-2 Furnace - 404
- Mustafin, I. S., E. A. Kashkovskaya, and A. N. Ivanova, A New Indicator of the Acid Chrome Dark Blue Type for Use with Trilon B (EDTA) - 1182
- Mustafin, I. S. and L. O. Matveev, Analytical Uses of Phenolcarboxylic Acids of the Triphenylmethane Series. Determination of Beryllium in Rocks, Minerals and Alloys - 285
- Mustafin, I. S., see Kashkovskaya, E. A. - 1319
- Narbutt, K. I. and I. D. Bespalova, Quantitative Determination of U, Th, Pb, Hf, Nb, Zr, Y and Sr in Ores and Minerals by Fluorescent X-ray Spectral Analysis - 695
- Narbutt, K. I., The Present State of X-ray Spectral Analysis (Review) - 680
- Natapov, B. S. and E. S. Fal'kevich, On the Determination of the Mechanical Properties of Steel for Deep Drawing from the Values of the Coercive Force - 1130
- Navrotskii, I. V., see Kurmanov, M. I. - 100
- Navrotskii, I. V., see Tomenko, Iu. S. - 1247
- Nazarenko, V. A. and G. V. Filantikova, The Analysis of Pure Metals. The Determination of an Admixture of Silicon in Some Semiconductor Metals - 746
- Nazarenko, V. A. and G. V. Filantikova, The Analysis of Pure Metals. The Determination of Traces of Cadmium in Indium - 898
- Nazarenko, V. A., N. V. Lebedeva and R. V. Ravitskaya, A Method for the Determination of Germanium in Ores, Coal, and Industrial Wastes - 6
- Nazarenko, V. A. and G. G. Shitareva, Analysis of Pure Metals. Determination of Cobalt as an Impurity in Bismuth - 1041
- Nazarenko, V. A. and M. B. Shustova, Fluorometric Determination of Sulfate Ions and Spectrophotometric Determination of Thorium with the Aid of Trihydroxyfluorone Derivatives - 1474
- Nazarenko, V. A., see Vinkovetskaya, S. Ia. - 296
- Nazarov, S. T. and Iu. P. Panov, Ultrasonic Quality Control of Contact Spot and Seam Welding - 1345
- Nazarova, E. V., see Moldavskii, B. L. - 915
- Nechvolodov, V. V., About X-ray Structural Cameras for the Plant Laboratory - 733

- Nekhendzi, E. Iu. and N. G. Tisenko, Extensometers for Measuring Static Deformation Up to a Temperature of 450°C - 976
- Nel'kenbaum, Ia. I., The Determination of Petroleum Products in Drainage Water by a Pycnometric Method - 325
- Neshumova, A. M., see Slavsillo, S. V. - 322
- Nesmelanov, An. N., see Lapitskii, A. V. - 1276
- Nemoshkalenko, V. V., see Borisov, N. D. - 720
- Nenasheva, L. A., see Kuznetsov, V. I. - 1173
- Nessonov, B. D., see Malkov, S. I. - 1296
- Nessonova, G. D., see Malkov, S. I. - 1296
- Nessonova, G. D. and E. K. Pogoslants, Determination of Alkoxyl Groups in Organic Silicon Compounds - 1061
- Neustruev, A. A., see Vishniakov, D. Ia. - 62
- Nikiforova, V. M., see Riabchenkov, A. V. - 171
- Nikitina, E. I., The Photocolorimetric Determination of Silicon in Copper Alloys - 451
- Nikitin, M. M., Efficient Performance of Analyses by the Combustion Method - 1423
- Nikolaev, N. S. and I. F. Alenchikova, The Determination of Water in Liquid Hydrogen Fluoride - 472
- Nikol'skaia, I. V., see Kuznetsov, V. I. - 1308
- Nikonova, M. P., see Poluektov, N. S. - 592
- Nilus, E. L., see Ryss, I. G. - 1479
- Nisnevich, A. I., Application of Scintillation Counters in the Study of Weat Processes - 1084
- Nosek, M. V., see Bukhman, S. P. - 445
- Novichkov, P. V., A Torque Magnetometer for Determining the Influence of Stresses and Deformations on the Decomposition of Austenite - 1649
- Novikov, L. S., see Soroklin, A. A. - 1112
- Novoselova, A. V., see Grigor'ev, A. I. - 200
- Nusinov, M. D., see Pozin, A. A. - 1009
- Obozov, I. P. and V. V. Shevel'ev, The Significance of the Relative Cross-Sectional Dimensions of a Flat Specimen in Assessing the Ductile Properties of Low-Carbon Steel - 83
- Obtemperanskaia, S. I., see Terent'ev, A. P. - 158
- Obtemperanskaia, S. I., see Terent'ev, A. P. - 911
- Oding, I. A. and G. F. Lepin, Calculation of Effective Stresses in a Ring Specimen Subjected to Creep and Relaxation - 947
- Ognev, R. K., The Polarographic Determination of the Adsorptive Capacity of Coals and Semicokes - 912
- Ogorodnikov, K. V., see Oshman, V. A. - 1551
- Ol'khovnikov, Iu. P., see Rozenfel'd, I. L. - 178
- Ol'shanskii, L. P., see Faerman, D. V. - 1057
- Ordina, Z. G., The Determination of the Silicon Content at Various Levels of the Layer by the Microhardness Method - 1132
- Orlov, R. V. and V. M. Kurbatov, Dynamometer for Measurement of Forces in Impact Reactions of Cylindrical Specimens - 1396
- Orochko, A. I., see Epik, P. A. - 467
- Oshe, E. K., see Rozenfel'd, I. L. - 388
- Oshman, V. A. and K. V. Ogorodnikov, Seminar in Analytical Chemistry of Dispersed Elements - 1551
- Osipov, V. G., Appraisal of Degree of Deformation in Simple Compression Tests - 874
- Ostroushko, Iu. I. and I. L. Romanov, A Simple Construction of a Flame Photometer - 1385
- Ozerov, R. P., A Method for the Quantitative X-ray Determination of the Concentration of a Solid Solution of Carbon in Apatite - 651
- Ozerov, R. P., see Illarionov, V. V. - 490
- Paklina, V. P., see Shvaiger, M. I. - 13
- Palatnik, L. S., B. T. Boiko, and V. M. Kosevich, Method for the Preparation and Analysis of Specimens of Varying Composition - 477
- Palatnik, L. S., G. V. Fedorov, and V. M. Kosevich, The Technique of Measuring Microhardness With Thin Films - 857
- Panasenko, F. L., see Klemeshov, G. A. - 427
- Panin, A. S., An Automatic Instrument for Determining the Permeability by Water of Various Materials - 256
- Panov, Iu. P., see Nazarov, S. T. - 1345
- Panov, V. I., An Improved Sedimentometer - 1410
- Parfessa, G. I., see Sidliarenko, V. A. - 1348
- Pavlotskaia, F. I., see Sorokin, A. A. - 1112
- Pavlovskaiia, N. T., see Bezborod'ko, M. D. - 1399
- Pavlovskaiia, N. T., G. I. Kos'kun and M. D. Bezborod'ko, Method of Preparing Specimens for the Metallographic Analysis of the Wear Spot - 941
- Pavlushenko, I. S. and N. M. Kostin, A Sampling Device - 566
- Patrikeev, V. V. and M. L. Khidekel, Device for Taking Samples of Catalyst Suspensions - 1278
- Peizulaev, Sh. I., A. G. Karabash, L. S. Krauz, F. A. Kostareva, N. I. Smirnova-Averina, F. L. Babina, L. I. Kondrat'eva, E. F. Voronova and V. M. Meshkova, Spectral Methods of Determining Trace Impurities 1. Chemico-spectral Methods for the Analysis of Strontium, Chromium and Silicon - 816
- Perel'man, E. G., The Problem of a Criterion for Determining the Thickness of the Carburized Layer - 63
- Perepelkin, K. E., Piezometric Method for the Determination of Dissolved Gases in Liquids - 1498

- Perepelkina, M. A., see Shaevich, A. B. - 1616
- Perestoronin, A. A., S. A. Vermenichev and T. N. Zaidman, Laboratory Shaft Furnace with Induction Heating - 1005
- Persiantseva, V. P. and I. L. Rozenfeld, Laboratory Methods of Studying Volatile Inhibitors - 931
- Pestov, V. G., Experimental Determination of Dynamic Loads on the Teeth of Straight Spur Gears - 85
- Petrenko, A. G., see Busev, A. I. - 1584
- Petrikova, M. N., see Alimarin, I. P. - 26
- Petrov, D. A. and V. M. Glazov, Apparatus and Methods for Investigation of the Physicochemical Properties of Substances in the Solid and Liquid States - 32
- Petrov, K. I., see Zaidel', A. N. - 1115
- Petrova, O. P., see Slezinger, I. I. - 1401
- Petrusevich, I. A., see Bezuglyi, D. B. - 1582
- Pfelfer, T. A., see Kogan, Ia. I. - 1350
- Pigulevskii, V. V. and A. L. Labutin, Furnace for Testing Catalysts and Studying Catalytic Reactions - 402
- Piliankevich, A. N., Two-Stage Impression Method of Preparing Fractures for Electron Microscopy - 353
- Piliankevich, A. N., Use of Imprint Method in Fractography - 939
- Pilipenko, A. T., see Zharovskii, F. G. - 1321
- Pinsker, Z. G., The Present State and the Prospects of Electron Diffraction as Applied to the Study of Materials (Review) - 671
- Pivovarov, L. Kh., see Umanskii, Ia. S. - 619
- Platonova, A. F., see Popova, N. M. - 907
- Pliushcheva, L. N., The Quantitative Spectral Analysis of Cast Iron Using an Alternating-Current Arc - 517
- Plotnikov, V. I., Determination of Silver in Alloys by Radiometric Titration - 1036
- Pogodin-Alekseev, G. I. and A. G. Vasil'eva, On Methods of Determining the Localized and Uniform Plasticity in Tension - 1523
- Pogodin-Alekseev, G. I., see Pogodina-Alekseeva, K. M. - 209
- Pogodina-Alekseeva, K. M. and E. E. Krotkova, Use of the Method of Microhardness for Determining the Hardening of Structural Steel by Cold Working and Strain Aging - 532
- Pogodina-Alekseeva, K. M. and G. I. Pogodin-Alekseev, The Brittleness of Steel Produced During Testing and the Means for Revealing It - 209
- Pogosiants, E. K., see Nessonova, G. D. - 1061
- Polevoi, A. I., A Holder for the Determination of Gases in Metals by the Spectral Method - 990
- Pollul', Iu. P. and L. M. Fedorova, An Accurate Method of Setting Electrodes for Spectral Analysis - 524
- Poluektov, N. S. and M. P. Nikonova, The Determination of Traces of Alkali Metals in Cesium Salts by a Flame Photometric Method - 592
- Pomazan, D. A., Reconstruction of the Graph-Plotting Apparatus of the P-5 Universal Testing Machine - 1395
- Ponomar', V. I., Photometric Attachment for Steelscope - 879
- Ponosov, V. I., see Stepin, V. V. - 1043
- Popereka, M. Ia., A. M. Fraktor, K. S. Frusin, A. A. Martynenko and D. N. Famil'tsev, Determination of Internal Stresses in Galvanic Coating - 1293
- Popialkovskii, Iu. K., Use of a Centrifuge for Sample Preparation - 259
- Popilov, L. Ia., Small-Size Equipment for Electropolishing and Electrostretching of Metallographic Sections - 997
- Popov, A. A. and V. L. Salov, New Magnetometer with Ferromagnetic Probe - 999
- Popov, E. I., see Efremov, V. Ia. - 1279
- Popova, N. M. and A. F. Platonova, The Determination of the Intermetallic Phase in Nickel Alloys - 907
- Popova, N. M. and L. V. Zaslavskaya, Colorimetric Determination of the Iron Carbide Content of Steel - 23
- Portnova, V. V., see Shvarts, D. M. - 816
- Postnikov, I. V., see Rubinshtein, R. N. - 1260
- Potekhin, L. N., An Electronic Regulator of the Rate of Heating - 268
- Pozin, A. A., G. Sh. Izraelit, and M. D. Nusinov, Apparatus for Estimating the Deformability of Rubber Stock - 1009
- Pridantsev, M. V. and A. R. Krylova, A Method of Determining the Resistance to Thermal Shock of Sheet Steels and Alloys - 216
- Prigorovskii, N. I., E. N. Fillimonova, and G. S. Dedovets, Models for Stress Investigations Made of Optically Insensitive Transparent Material with Inserts of ED6-M Material - 1525
- Prigorovskii, N. I. and A. V. Krupin, Conference on the Polarization-Optical Method of Stress Investigations - 1550
- Prishchepa, M. P., V. I. Karpov and A. F. Kolesnikov, A Machine for Testing Metals for Wear Caused by Friction and Impact - 1651
- Progrushchenko, A. V., A High-Temperature Evacuated X-ray Camera with a Continuously Rotating Specimen - 102

- Prokhorov, G. A., see Fel'dman, L. S. - 875
- Prokhyatilov, V. G., see Gindin, E. I. - 103
- Pshenitsyn, N. K. and O. M. Ivonina, Spectrophotometric Determination of Palladium with Nioxime and α -Benzyldioxime - 1315
- Pshenitsyn, P. A., Automatization of the Thermo-static Method for Determination of Heat Evolution from Cement During Its Hardening - 1363
- Pugin, V. A., see Biderman, V. L. - 979
- Puzyr'kov, P. I., Power Dynamometers Using Strain Gages - 116
- Rakhman, B.M. Tensometer for Measuring Elongation During Creep and Continuous-Strength Tests in Small Machines - 1404
- Rakhmanov, A. S., see Livshits, L. S. - 701
- Ranskii, B. N., The Determination of Rhenium in Products Containing Molybdenum - 900
- Raspletin, K. K., see Miliutin, V. I. - 92
- Rastegaev, M. V. and A. E. Borisov, Device for Impact Tension Testing of Heat-Resisting Alloy Specimens at High-Temperatures - 975
- Ratner, A. V., see Buliaev, V. N. - 244
- Ratner, A. V. and V. N. Gulliaev, The Investigation of Turbine Materials for Resistance to Scoring - 869
- Ravitskaia, R. V., see Nazarenko, V. A. - 6
- Razov, I. A. and E. M. Shevandin, Use of Grids for the Study of the Effect of Various Forms of Stresses on the Plastic Limit of Steel - 357
- Razov, I. A., see Danilov, T. L. - 1365
- Razumova, G. P., see P. Ia. Iakvlev - 1564
- Redoshkin, A. M., see Lebedev, O. L. - 1425
- Reinberg, E. S., On the Basis of Endurance Testing of Titanium - 1232
- Rekitar, M. I., see Dem'ianchuk, A. S. - 847
- Reznik, B. E., R. E. Dlugach and R. T. Rudskaia, Determination of Cobalt in Nickel Metal - 1565
- Riabchenkov, A. V., V. M. Nikiforova and V. F. Abramova, Microchemical Method for Investigating the Corrosion of Metal Under Stress - 171
- Riabov, R. A. and P. V. Gel'd, Determination of the Rate of Diffusion of Hydrogen in Metals - 343
- Romanov, I. L., see Ostroushko, Iu. I. - 1385
- Rossoshinskii, A. A., see Sidiarenko, V. A. - 1348
- Rovinskii, B. M. and V. M. Sinaiskii, "Crystal Lattice Load-Strain" Curve Obtained by the Continuous Recording Method - 1495
- Rozenberg, M. I., The Determination of Iron and Aluminum in Iron-Aluminum Bronzes Using Trilon B (EDTA) - 1181
- Rozenfel'd, I. L. and Iu. P. Ol'khovnikov, Capacity Method of Determining the Thickness and Continuity of Paint Coatings on Metals - 178
- Rozenfel'd, I. L. and E. K. Oshe, A Device for the Investigation of the Corrosive and Electrochemical Behavior of Metals Under the Influence of Ionizing Radiation - 388
- Rozenfel'd, I. L., see Persiantseva, V. P. - 931
- Rozhavskii, G. S., see Zimakov, I. E. - 1030
- Ruban, I. N., see Dal', V. I. - 1579
- Ruban, P. M., see Graf, M. E. - 1532
- Rubinshtein, G. M., see Ashkenazi, E. K. - 1251
- Rubinshtein, R. N., I. V. Postnikov, and A. P. Ievlev, The Analytical Part of the Apparatus for the Vacuum Extraction of Gases Without Mercury - 1260
- Rubinstein, A. M., see Afanas'ev, V. A. - 929
- Rud, E. Kh., see Skochilova, S. Ia. - 914
- Rudchenko, A. V., see Gladshstein, L. I. - 1367
- Rudnitskii, N. M., An Apparatus for Determining the Mechanical Properties of Lead Alloys at Elevated Temperatures - 117
- Rudnitskii, N. M., On the Determination of the Fatigue Strength of Soft Metals and Alloys - 370
- Rudnitskii, V. I., Fatigue Testing Device for Non-circular Specimens - 557
- Rudskaia, R. T., see Reznik, B. E. - 1565
- Rumiantseva, V. A., see Kostrikin, Iu. M. - 470
- Rybakova, L. M., A New Method of Applying Grids - 1521
- Ryss, I. G. and E. L. Nilus, The Use of Fluoboric Acid in Quantitative Analysis. Determination of Potassium and Sodium in Mixtures of Chlorides - 1479
- Sabinin, A. A., see Gerasimov, V. V. - 1548
- Saiun, M. G., P. P. Tsyb and K. Kh. Latkher, Separation of Zinc from Indium by Electrolysis with a Mercury Electrode - 1571
- Salov, V. L., see Popov, A. A. - 999
- Samarin, A. M., see Vertman, A. A. - 347
- Sandler, N. I. and Zh. N. Akhmechet, Back-Scattering Camera with Independent Standard at Low Temperatures - 731
- Saraeva, N. F., see Gur'ev, S. D. - 1324
- Sarakhov, A. I., see Batrukova, M. G. - 1275
- Shcherbakov, V. G. and R. M. Veitsman, The Decomposition and Analysis of Chromic Oxide - 312
- Sedekov, L. M., see Koniakhin, I. R. - 711
- Selezneva, T. M., The Use of Paper Chromatography for Analysis and Identification of Naphthylamine- and Naphtholsulfonic Acids - 1433

- Selivanov, V. G., see Bogovina, V. I. - 1329
- Sel'tser, A. S., see Tseitlin, Kh. L. - 1006
- Semenenko, K. N., see Grigor'ev, A. I. - 200
- Semenenko, K. N., see Simanov, Iu. P. - 105
- Semenov, G. A. and M. Ia. Turkina, Direct Determination of the Deuterium Content in Deuteriobenzene by Means of a Mass Spectrometer - 1207
- Semenov, Iu. N., Determination of the Strength of Pressed Metal Powders - 1377
- Serebriakov, V. V., see Sharov, M. V. - 1358
- Seredin, Iu. V., The Planning of a Laboratory for Work with Radioactive Isotopes - 1156
- Serensen, S. V., Problems of Metallic Fatigue Considered at a Meeting of the French Metallurgical Society - 545
- Serensen, S. V., M. E. Graf and L. A. Kozlov, Machines for Fatigue Testing - 1160
- Serensen, S. V., V. P. Kogaev, M. N. Stepanov and E. V. Giatsintov, Regarding the Distribution of Durability During Fatigue Tests - 363
- Serensen, S. V. and L. A. Kozlov, Linear Interpretation of Cumulative Damage and Resistance Characteristics to Fatigue and Stress Rupture [Long-Time Static Destruction] - 1506
- Serensen, S. V. and P. I. Kotov, On Methods of Thermal Fatigue Testing - 1221
- Shabalin, V. I., Investigation of the Effect of the Frequency of Load Reversal on the Endurance of Armco Iron - 1235
- Shaevich, A. B., Ia. M. Kalinskii, N. I. Chabanenko and M. A. Perepelkina, Determination of Impurities in Ferroniobium by Spectrographic Analysis - 1616
- Shaevich, A. B., see Skorniakov, G. P. - 1430
- Shakhtin, D. M., see Kraftmakher, Ia. A. - 1001
- Shapiro, M. M., see Kliachko, Iu. A. - 1441
- Sharaniuk, V. M., Elastic Containers for Storage of Photographic Solutions - 1419
- Sharov, B. V., Camera for X-ray Diffraction Micrographs - 729
- Sharov, M. V. and V. V. Serebriakov, Procedure for Determination of Hydrogen Solubility in Magnesium and Its Alloys - 1358
- Shchegol', Sh. S., The Analysis of Aqueous Solutions of Chlorites and Chlorine Dioxide - 1163
- Shcherbak, O. V., New Power-Driven Grinders - 1281
- Shcherbov, D. P., Fluorescence Analysis of Inorganic Substances - 1332
- Shcherbov, D. P. and A. I. Ivankova, A Comparative Investigation of Photometric Methods of Determining Gallium - 751
- Shcherbov, D. P. and A. I. Ivankova, Fluorometric Determination of Tellurium with Rhodamine C - 1476
- Shcherbov, D. P., see Ksandopulo, G. I. - 1566
- Shellubskii, V. I., Apparatus for Investigations of Thermal Stability - 1397
- Shemarin, N. N., Arrangement for Oscillographic Recording of Stresses and Deformations Under the Action of Impact Forces - 1387
- Shemiatenkova, V. T., see Slavtshilo, S. V. - 322
- Shevandin, E. M., Assessment of the Tendency of Steel to Brittleness in Service. Evaluation of the Effect of the Scale Factor - 1134
- Shevandin, E. M., see Danilov, T. L. - 1365
- Shevandin, E. M., see Razov, I. A. - 357
- Shevelev, V. V., see Obozov, I. P. - 83
- Shifman, M. E., see Sem'ianchuk, A. S. - 847
- Shikhobalov, S. P., see Maksutova, T. D. - 250
- Shikalova, I. V., see Kiselev, A. V. - 1197
- Shilenkov, V. N., The Use of Celluloid Strips Instead of Glass Slides in Examining Dust Samples Under the Microscope - 111
- Shiniaev, A. Ia., A Method of Determining the Diffusion Coefficients in Metals and Alloys - 1093
- Shirenko, N. S. and V. P. Dobrov, Current-Collecting Device for the Determination of the Torque of a Shaft by Means of a Wire-Resistance Data Transmitter - 556
- Shivrin, O. N., Independent Standard for Measurement of the Intensity of Interference Lines in the Camera KROS-1 - 727
- Shishmarev, O. A., see Iagn, Iu. I. - 1373
- Shimelevich, I. L., see Danilov, T. L. - 1365
- Shitareva, G. G., see Nazarenko, V. A. - 1041
- Shpeizman, V. M. and E. A. Krasovskaya, Simplified Method of Determining the Moisture Content of Materials Used in Welding - 196
- Shpital'nyi, A. S. and L. A. Vol'f, Refractometric Method for the Determination of Caprolactam and N-Methylcaprolactam - 1626
- Shulepov, V. I., see Mozzhukhin, E. I. - 404
- Shvaiger, M. I., V. P. Paklina and A. S. Medvedeva, A Photocolorimetric Method of Determining Bismuth in Tin - 13
- Shvangiradze, R. R. and N. V. Simonova, The Role of Graphite Powder in Spectral Analysis and Its Application for the Analysis of Very Pure Antimony - 987
- Shvarts, D. M. and V. V. Portnova, Spectral Analysis of Exceptionally Pure Tin Employing Preliminary Concentration - 824
- Shvarts, S. M., see Klemeshov, G. A. - 427
- Shvartsman, L. A., Experimental Use of Radioactive Isotopes in Ferrous Metallurgy - 1025
- Shtal'man, M. V. and V. N. Balabanov, Use of the URS-55 Apparatus for X-ray Structural Analysis Under Shop Conditions - 732

- Shtokalo, M. I., see Babko, A. K. - 759
- Shul'ga, S. Z., Apparatus for Measuring Absorption Spectra With Photoelectric Recording - 877
- Shustova, M. B., see Nazarenko, V. A. - 1474
- Shutova, A. I., see Tsiurupa, N. N. - 193
- Slavtillo, S. V., V. T. Shemiatenkova and A. M. Neshumova, The Determination of Chlorine in Organosilicon Compounds - 322
- Sidilarenko, V. A., G. I. Parfessa and A. A. Rossoshinski, Exposure of Crystallization Layers in Seamwelds by the Method of Electrolytic Etching - 1348
- Silaeva, E. V., see Stepin, V. V. - 1043
- Silin, A. A., see Kol'chenko, A. V. - 1631
- Simanov, Iu. P., V. S. Burov and K. N. Semenenko, A Simple Device for X-ray Studies on Single Crystals at High-Temperatures - 105
- Simonova, N. V., see Shvangradze, R. R. - 987
- Sinatskii, V. M., see Rovinski, B. M. - 1495
- Sitnikov, I. I., see Dolmatov, E. G. - 708
- Sivlukova, M. A., see Chernashkin, V. G. - 1237
- Skachko, M. A., see Gudymenko, K. F. - 1188
- Skanavi, M. D., The Determination of Small Amounts of Hydrogen Fluoride with a Titanium-Chromotropic Reagent - 769
- Skochilova, S. Ia. and E. Kh. Rud', Use of the Fischer Reagent in Synthetic Rubber Production Control - 914
- Skorniakov, G. P. and A. B. Shaevich, The Second Ural Spectroscopy Conference - 1430
- Skorodumov, B. A. and Iu. V. Buby', Experiment on Inductive Current Collection in Tensiometry - 1405
- Skrebtsov, A. M., Experience Gained in the Use of Radioactive Indicators in the Azovstal' Metallurgical Works - 1158
- Skrabin, N. P., A New Method for Studying the Deformation of Metal - 82
- Slabchenko, A. G., X-ray Structural Study of the Phase Composition of an Agglomerate - 654
- Slavnyi, V. A., see Abramson, I. S. - 785
- Slezinger, I. I., K. S. Konenkov and O. P. Petrova, Apparatus for the Determination of Mechanical Properties of Rocks - 1401
- Smilian, I. A., see L'vovskii, M. Ia. - 213
- Smirnov, V. F., Scintillation Methods of Measuring the Radioactivity of Weak Preparations - 1103
- Smirnov, V. I., A Lag-Free Temperature Regulator - 1549
- Smirnova-Averina, N. I., see Peizulaev, Sh. I. - 816
- Smolenskii, F. A., see Klemeshov, G. A. - 427
- Sobolev, G. V., see Zykov, D. D. - 238
- Sobolev, V. A., Device for Studying the Dynamic Stability of Rods - 249
- Sogomoniants, Zh. S., Fluoroplast-4 (Teflon) Seal for Stirring in Vacuo - 1424
- Sokolov, B. P., Experimental Apparatus for the Study of Strain Using Fine Grids - 965
- Sokolov, O. V., see Kuznetsov, E. S. - 873
- Sokolovskii, P. I., see Gladshtein, L. I. - 1367
- Soldatov, E. A., see Zhukhovitskii, A. A. - 1193
- Sologub, N. A., The Measurement of the Micro-hardness of Specimens of up to 300 mm Long - 1661
- Sol'ts, V. A., see Borisova, A. K. - 68
- Sonchik, L. S., see Kremer, V. A. - 1574
- Songina, O. A., Development of Amperometric Titration Methods (A Review) - 161
- Songina, O. A., The Amperometric Determination of Chloride Ion in Solutions of Copper and Zinc Sulfates - 304
- Songina, O. A. and A. P. Voiloshnikova, Amperometric Determination of Arsenic and Selenium by a Direct Iodide Method - 1461
- Sorokin, A. A., L. S. Novikov and F. I. Pavlotskaia, The Use of the Luminescence Spectrometer for the Identification of Radioisotopes - 1112
- Sorokin, P. Ia. and S. V. Mikhailikov, Direct Measurement of the Temperature of Metal in Laboratory Induction Furnaces - 349
- Sorokin, Ia. Z., see Levit, R. M. - 43
- Sorokin, P. Ia., A. V. Zabaikin, P. P. Babich and O. A. Zakharov, The Continuous Measurement of Liquid Steel Temperature in the Ladle - 1613
- Sozin, Iu. I., Trap for a Debye (Powder) Camera - 272
- Spivakovskii, V. B. and N. V. Aksel'rud, Potentiometer Attachment for Precise Determination of pH with a Glass Electrode - 423
- Stankevich, O. F., see Bessonov, K. A. - 542
- Starkov, L. N., A Design Change in a Glass Circulating Pump - 1420
- Stepaniuk, E. I., see Alimarin, I. P. - 1185
- Stepin, V. V., The Release of Standard Samples and Standards for Spectral Analysis - 1429
- Stepin, V. V., V. I. Ponosov, and E. V. Silaeva, Determination of Small Amounts of Bismuth, Lead, Cobalt, Nickel, Phosphorus, Iron and Copper Using Ionites - 1043
- Stepnov, M. N., see Serensen, S. V. - 363
- Stepurenko, V. T., see Iatsiuk, A. I. - 247
- Stiunkel', T. B. and E. M. Iakimets, Acid Chrome-Dark-Blue and Acid Chromeblue K as Indicators for Trilonometric Determination of Calcium - 20
- Strakhov, N. P., see Kalinchenko, L. P. - 19

- Strekalova, O. S., see Toropova, V. F. - 138
- Strunkin, V. A., see Tseitlin, Kh. L. - 1006
- Stukov, L. A., see Uzun, A. T. - 565
- Sukhenko, K. A., K. A. Molseeva, I. G. Tishin
and L. D. Metelina, Analysis of Some
Elements in Alloys Using a Photoelectric
Steelometer - 802
- Sultanian, T. A., see Svistunova, Z. V. - 1217
- Sultanian, T. A., see Vasil'eva, N. P. - 1214
- Surikova, E. E., see Vandyshv, B. A. - 862
- Sutlagina, A. A., Determination of Inclusions of
Sulfur in Electrodeposited Coatings of Nickel
and Copper by a Radiochemical Method - 41
- Suvorov, L. M., Instrument for Contactless Measure-
ment of Electrical Conductivity of Electrolytes
and Other Materials - 996
- Suvorov, L. N., Electroinduction Instrument for the
Detection of Cracks in Nonmagnetic Alloy
Parts - 397
- Svirskii, G. S., see Borisov, N. D. - 720
- Svirskii, G. S., see Lashko, A. S. - 728
- Svistunova, Z. V., I. N. Chaporova, N. P. Vasil'eva,
T. A. Sultanian and V. E. Kiselev, Electron-
microscopic Investigation of the Structure of
Cement Hard Alloys - 1217
- Syskov, K. I. and O. V. Verbitskaia, A Pycnometer
Method for Determination of Apparent
Specific Gravity of Coke - 1355
- Taits, S. Z. and I. A. Lavrov, Apparatus for Deter-
mining Melting Points - 1412
- Talipov, Sh. T., see Maksimycheva, Z. T. - 1014
- Taranenko, I. T., Determination of Metallic Iron
in Presence of Ferrous and Ferric Oxides - 1314
- Tarasevich, N. I., see Lomakina, L. N. - 300
- Teodorovich, I. L. and M. K. Abramov, The Use of
Sodium Ferrocyanide for the Amperometric
Titration of Manganese - 460
- Teodorovich, O. K. and E. T. Kachkovskaia, Electro-
polishing and Electrostretching of Metallo-
graphic Sections of Metalloceramic Materials
with an Iron Copper Basis - 56
- Terent'ev, A. P., S. I. Obtemperanskaia, and M. M.
Buzlanova, A Potentiometric Method for
Determining Acrylonitrile by Means of
Sodium Sulfite - 158
- Terent'ev, A. P., S. I. Obtemperanskaia and M. M.
Buzlanova, A Potentiometric Method for the
Determination of Acrylonitrile Using Hydro-
xylamine - 911
- Tereshchenko, P. N., Accessories for Laboratory Anal-
ytical Work - 240
- Tereshchenko, P. N. and V. I. Antonov, A Laboratory
Centrifuge - 1280
- Terminasov, Iu. S., see Mindukshev, V. F. - 553
- Terminasov, Iu. S., see Mindukshev, V. F. - 721
- Terpogosoŭa, E. A., see Veselovskii, V. S. - 184
- Tiabina, R. A., see Kreimer, S. E. - 289
- Tiapkin, Iu. D., see Bagariatskii, Iu. A. - 625
- Timofeeva, E. I. and L. A. Urvantsov, Measurement
of the Dynamic Hardness of Metals - 1016
- Timofeeva, L. V., see Fuks, G. I. - 482
- Timoshuk, L. T., International Bases for the
Standardization of Mechanical Testing
Methods for Metals - 550
- Tiratsuiian, A. V., Device for Determination of
Linear Wear on Concave Cylindrical Sur-
faces - 1409
- Tisenko, N. G., see Nekhendzi, E. Iu. - 976
- Tishin, I. G., see Sukhenko, K. A. - 802
- Titov, V. I., Amperometric (Polarimetric) Titration
in the Analysis of Mineral Ores - 1431
- Tiutlunnikova, T. I., see Kisilevskii, V. V. - 991
- Tkachenko, F. K. and V. F. Zubarev, Study of
Microscopic Nonuniformity of Steel with
Respect to Silicon Content by Means of
Surface Oxidation - 935
- Tochil'nikov, D. G., Calculation of the Radioactiva-
tion of Specimens and Parts in Investigation
of Their Wear Resistance by the Method of
Labeled Atoms - 1075
- Tokareva, D. V., see Zheleznova, E. I. - 1068
- Tokmakov, V. S., The Application of Radioactive
Thallium to Gamma-Defectoscopy - 1097
- Tomashov, N. D. and A. A. Lokotilov, Determina-
tion of the Thickness of Water Films on Metals
During Atmospheric Corrosion - 480
- Tomashov, N. D., G. P. Chernova, T. M. Al'tovskii
and G. K. Blinchevskii, Development of a
Method of Cleaning the Surface of Metals
Under a Solution for the Investigation of
Passivity Phenomena - 336
- Tomenko, Iu. S., I. V. Navrotskii and F. R. Volchek,
Calculation of Impact Energy in Multiple
Impact Tests - 1247
- Toropova, V. F. and O. S. Strekalova, Amperometric
Determination of Cobalt in Magnetic Alloys
- 138
- Tret'iakov, V. F., see Markovets, M. P. - 368
- Tret'iakov, V. P., see Markovets, M. P. - 704
- Trotsenko, M. A. and V. P. Vendt, The Determina-
tion of the Concentration of Organophosphorus
Insecticides in Air - 917
- Tseitlin, Kh. L., A. S. Sel'tser, N. N. Zemlianitskaia,
V. A. Strunkin and L. V. Merzloukhova,
Corrosion Tests in Ampules - 1006
- Tsfas, B. S., A Multistation Fixture for Testing
Gears on a Pulsator - 1660

- Tsfasman, S. B., I. E. Bryksin and B. S. Bruk, An Automatic Polarographic Concentration Meter - 1538
- Tsirl', V. A., A Simplified Method of Preparing Fischer Reagent - 1011
- Tslurupa, N. N. and A. I. Shutova, Dispersion Analysis of Highly Disperse Powders by Means of an Ultracentrifuge - 193
- Tsobkallo, S. O. and Z. A. Bashchenko, Comparison of the Static Load and Subsonic Methods of Determining the Modulus of Elasticity of Sheet Materials - 66
- Tsyb, P. P., see Safun, M. G. - 1571
- Tsyvina, B. S. and V. M. Vladimirova, The Determination of Indium in Sphalerite Concentrates by Amperometric Titration with Complexone - 310
- Tuliupa, F. M., see Usatenko, Iu. I. - 1457
- Turkel'taub, N. M., see Zhukhovitskii, A. A. - 893
- Turkina, M. Ia., see Semenov, G. A. - 1207
- Tuzhilina, N. V., see Kreimer, S. E. - 289
- Ulanoskii, E. N., see Kaplan, B. Ia. - 1542
- Umanskii, Ia. S. and L. Kh. Pivovarov., X-ray Methods of Studying the Mosaic Structure of Metals - 619
- Umrykhin, P. V., see Klein, A. L. - 945
- Urvantsov, L. A., see Timofeeva, E. I. - 1016
- Usatenko, Iu. I. and N. P. Fedash, Decomposition of Difficultly-Soluble Foundry and Open-Hearth Slags by the Sintering Method - 1309
- Usatenko, Iu. I. and F. M. Tuliupa, Lead as Indicator in Amperometric Titrations with Sodium Diethyldithiocarbamate Solutions - 1457
- Usatenko, Iu. I. and M. A. Vitkina, The Amperometric Determination of Iron in Various Materials Using Trilon B (EDTA) - 1179
- Usoskin, G. I., see Lopatko, I. F. - 1601
- Uzarovskii, S. S., see Dudarchik, V. N. - 1411
- Uzun, A. T. and L. A. Stukov, New Design of Cell Holder for the FEK-M Photoelectrocolorimeter - 565
- Vall', E. I., see Kremer, V. A. - 1574
- Vandyshev, B. A. and E. E. Surikova, The Effect of Bending in Torsion Investigations - 862
- Varlamov, V. P., see Malinina, V. I. - 1502
- Vashchenko, Z. A., see Tsobkallo, S. O. - 66
- Vasil'eva, A. G., see Pogodin-Alekseev, G. I. - 1523
- Vasil'eva, N. P., T. A. Sultanian and I. N. Chaporova, Electron Microscopic Method for Investigating the Internal Structure of Powder Form and Compact Tungsten - 1214
- Vasil'eva, N. P., see Svistunova, Z. V. - 1217
- Veitsman, R. M., see Shcherbakov, V. G. - 312
- Vendt, V. P. and T. A. Lebedeva, A Catalyst for the Determination of Total Hydrocarbons in Air - 915
- Vendt, V. P., see Trotsenko, M. A. - 917
- Verbitskaia, O. V., see Syskov, K. I. - 1355
- Vermenichev, S. A., see Perestoronin, A. A. - 1005
- Vertman, A. A. and A. M. Samarin, The Measurement of the Magnetic Susceptibility of Liquid Metals - 347
- Veselovskaia, I. M., Experimental Work With the FES-1 Photoelectric Steelometer - 799
- Veselovskii, V. S., E. A. Terpogosova and N. D. Alekseeva, Method of Controlling the State of Oxidation of Coal - 184
- Vigdorovich, V. N. and A. E. Vol'pian, Procedure for Obtaining True Microhardness Values by Chemical Removal of Cold-Hardened Surface Layers - 860
- Vihoreva, T. A., see Kartseva, A. M. - 464
- Viktorov, S. P. and V. E. Evgenev, Crucible of Increased Durability for Assay Analyses - 1282
- Vinkovetskaia, S. Ia. and V. A. Nazarenko, The Volumetric Vanadatometric Determination of Gallium - 296
- Vinogradov, Iu. G. and E. G. Greil', On the Quantitative Analysis of Sulfur by Means of Transparent Print Photometering - 492
- Vinogradova, A. D., see Kliachko, I. R. - 607
- Vinogradov, G. V., see Bezborod'ko, M. D. - 1399
- Vinokurov, V. P., Device for Measuring the Melting Points of Difficultly Fusible Metals and Alloys - 1426
- Vishniakov, D. Ia. and A. A. Neustruev, Determination of the Cooling Powder of Fused Salt - 62
- Vitkina, M. A., see Usatenko, Iu. I. - 1179
- Vitkovskii, M. N. and V. A. Maslov, Corrosion Resistance of Aluminum in a 98% Nitric Acid Solution - 485
- Vladimirova, V. M., see Tsyvina, B. S. - 310
- Vladimirskii, T. A., Criterion of Steel Brittleness - 1142
- Vlasenko, V. I. and G. S. Zhdanov, The Use of Computers for X-ray Investigations - 713
- Voiloshnikova, A. P., see O. A. Songina - 1461
- Volchek, F. R., see Tomenko, Iu. S. - 1247
- Vol'f, L. A., see Shpital'nyi, A. S. - 1626
- Volkova, A. I., see Babko, A. K. - 132
- Volkova, T. I., Dependence of Relaxation Criteria on the Method of Investigation - 535
- Vol'pian, A. E., see Vigdorovich, V. N. - 860
- Voronova, E. F., see Peizulaev, Sh. I. - 816
- Vorot'nik, T. K., see Kisilevskii, V. V. - 991
- Voskresenskaia, N. T., The Colorimetric Determination of Thallium in Ores and Minerals Using Brilliant Green - 448

- Vostrov, G. A. and I. L. Gandel'sman, Instrument for Measurement of Low Specific Electro-conductivities in Liquids - 1417
- Votlokhin, B. Z., Portable Battery Indicator for Radioactive Radiation - 1151
- Vydrin, V. N., P. N. Amosov and L. D. Kossovskii, A Method for Determining the Wear of Rolling-Mill Rolls - 87
- Zabaikin, A. V., see Sorokin, P. Ia. - 1613
- Zablonskii, K. I., see Fedorov, G. D. - 559
- Zaborenko, K. B., see Babeshkin, A. M. - 1111
- Zaglodina, T. V., see Lur'e, Iu. Iu. - 130
- Zaiarnyi, V. I., Effect of the Shape of the Cross Section of the Specimen in Static and in Impact Shear Testing - 1244
- Zaidel', A. N. and K. I. Petrov, Determination of Hydrogen in Tantalum, Niobium and Uranium - 1115
- Zaidman, T. N., see Perestoronin, A. A. - 1005
- Zaitsev, N. D., Machine for Testing Relaxation Under Tension - 406
- Zaitsev, G. Z., see Kobrin, M. M. - 204
- Zakharov, A. A. and Sh. N. Kats, Simultaneous Investigation of Two Samples for Creep and Safe Continuous Load - 538
- Zakharov, O. A., see Sorokin, P. Ia. - 1613
- Zakrupa, V. A., see Dal', V. I. - 1579
- Zamnius, F. K., Method of Assessing Sands for Asphalt Cements - 355
- Zarinskii, V. A. and I. R. Mandel'berg, High-Frequency Apparatus for Physicochemical Investigation and Its Uses - 149
- Zaslavskaya, L. V., see Popova, N. M. - 23
- Zavarov, G. V., Methods of Determining Sulfate Contamination in Phosphate Solutions - 154
- Zavarov, G. V., A New Variant of the Determination of Active Chlorine in Bleaching Powder by the Electrometric Titration Method - 766
- Zelenova, V. D., Electrolytic Separation of Martensite and Austenite from Hardened Steel - 58
- Zelikman, A. N. and N. N. Gorovits, Precipitation and Determination of Tungsten in Molybdenum Compound - 1050
- Zemlianitskaya, N. N., see Tseitlin, Kh. L. - 1006
- Zevin, L. S. and D. M. Kheiker, Adapter for the URS-501 Apparatus for Photographs at High and Low Temperatures - 716
- Zharovskii, F. G. and A. T. Pilipenko, Colorimetric Determination of Germanium Phenylfluorinate - 1321
- Zhdanov, G. S., see Vlasenko, V. I. - 713
- Zheleznova, E. I. and D. V. Tokareva, Application of Radiometric Method to Determination of Uranium, Thorium and Radium in Ores - 1068
- Zil'berg, Iu. Ia., Methods of Testing Bimetals for the Strength of Adhesion of the Antifriction Layer to the Base - 375
- Zimakov, I. E. and G. S. Rozhavskii, Multiple Radioactive Dilution for Determining Trace Impurities - 1030
- Ziuskin, N. M., The Use of Fluorescence in Chromatography - 891
- Zhdanov, A. K., V. A. Khadeev and G. P. Moiseeva, Amperometric Titration of Cobalt with Potassium Ferricyanide in an Apparatus with a Rotating Platinum Microelectrode - 135
- Zhukhovskii, A. A. and A. G. Golitsykh, New Method of Measuring the Thermodynamic Characteristics of Solid Solutions - 927
- Zhukhovitskii, A. A., S. N. Kriukov and E. A. Soldatov, Nonisothermic Method of Determining the Diffusion Characteristics - 1193
- Zhukhovitskii, A. A. and N. M. Turkel'taub, Errors in Chromatographic Analysis Caused by Incomplete Separation - 893
- Zhukhovitskii, A. A., see Kriukov, S. N. - 1438
- Zorin, A. D., see Deviatykh, G. G. - 560
- Zubarev, V. F., see Tkachenko, F. K. - 935
- Zubkovskii, S. L., see Butanov, N. V. - 792
- Zvereva, M. N., The Separation of Zinc From the Cations of Analytical Groups II and III Using Anion Exchange Resins - 439
- Zver'kov, B. V., Machine for the Investigation of the Fatigue Strength of Tubes Under Pressure Combined with Cyclic Bending Stress - 1655
- Zykov, D. D., I. A. Lytkin, G. V. Sobolev and V. V. Khlebnikova, An Apparatus for Recording the Curve Distillation - 238
- Zykov, V. I. and E. V. Makarova, A Dampener with an Air Thermostat - 235