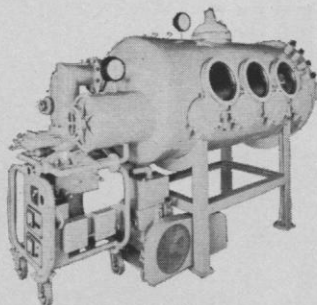


Books Reviewed in Science

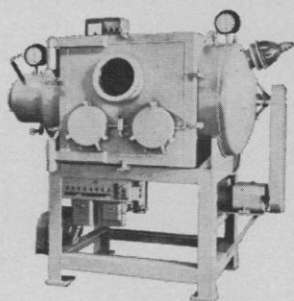
8 May 1970 through 7 May 1971

- Acidity Functions*, C. H. Rochester, 12 Mar. 1971, 1001
- Adhesion in Biological Systems*, R. S. Manly, 22 Jan. 1971, 274
- Advances in Biophysics*, vol. 1, M. Kotani, Ed., 5 Mar. 1971, 890
- Advances in Environmental Sciences*, vol. 1, J. N. Pitts, Jr., and R. L. Metcalf, Eds., 31 July 1970, 463
- Advances in Human Genetics*, vol. 1, H. Harris and K. Hirschhorn, 18 Dec. 1970, 1296
- Advances in Water Pollution Research*, S. H. Jenkins, Ed., 5 Feb. 1971, 469
- Adventures in Earth History*, P. Cloud, Ed., 26 Mar. 1971, 1234
- Aflatoxin*, L. A. Goldblatt, Ed., 5 June 1970, 1193
- Alfred Kroeber*, T. Kroeber, 25 Dec. 1970, 1391
- American City Planning since 1890*, M. Scott, 22 May 1970, 957
- The American Enlisted Man*, C. C. Moskos, Jr., 7 Aug. 1970, 570
- American Indian Medicine*, V. J. Vogel, 8 May 1970, 730
- Analogues of Nucleic Acid Components*, P. Roy-Burman, 4 Sept. 1970, 966
- The Analysis of Air Pollutants*, W. Leithe, 20 Nov. 1970, 843
- Anatomy of an Expedition*, H. W. Menard, 8 May 1970, 720
- The Anatomy of Paramecium aurelia*, A. Jurand and G. G. Selman, 9 Oct. 1970, 155
- Ancient Polynesian Society*, I. Goldman, 26 Feb. 1971, 793
- Animal Behaviour*, ed. 2, R. A. Hinde, 12 Mar. 1971, 998
- Animal Populations in Relation to Their Food Resources*, A. Watson, Ed., 5 Feb. 1971, 469
- Animals and Maps*, W. George, 28 Aug. 1970, 847
- Antarctic Ecology*, M. W. Holdgate, Ed., 4 Dec. 1970, 1073
- Approximations with Special Emphasis on Spline Functions*, I. J. Schoenberg, Ed., 5 June 1970, 1196
- The Archaeology of Early Man*, J. M. Coles and E. S. Higgs, 27 Nov. 1970, 963
- Aspects of Palynology*, R. H. Tschudy and R. A. Scott, Eds., 25 Sept. 1970, 1304
- The Atlas of the Universe*, P. Moore, 5 Mar. 1971, 888
- Atmospheric Emissions*, B. M. McCormac and A. Omholt, Eds., 21 Aug. 1970, 755
- Atomic Absorption Spectroscopy*, G. D. Christian, and F. J. Feldman, 29 Jan. 1971, 369
- Atomic Order*, E. Cantore, 5 Mar. 1971, 890
- Atomic Shield, 1947/1952*, R. G. Hewlett and F. Duncan, 8 May 1970, 695
- Average Evoked Potentials*, E. Donchin and D. B. Lindsley, Eds., 20 Nov. 1970, 842
- Axiomatization of the Theory of Relativity*, H. Reichenbach, 2 Oct. 1970, 51
- Basic Mechanisms of the Epilepsies*, H. H. Jasper, A. A. Ward, Jr., and A. Pope, Eds., 16 Oct. 1970, 311
- The Beagle as an Experimental Dog*, A. C. Andersen and L. S. Good, Eds., 13 Nov. 1970, 723
- The Behavioral and Social Sciences*, 11 Sept. 1970, 1064
- The Behavioral Repertoire of the Stumptail Macaque*, M. Bertrand, 17 July 1970, 272
- The Behavioral Sciences and the Federal Government*, 11 Sept. 1970, 1064
- Behind Appearance*, C. H. Waddington, 21 Aug. 1970, 751
- Biochemical Toxicology of Insecticides*, R. D. O'Brien and I. Yamamoto, Eds., 18 Dec. 1970, 1294
- The Biochemistry of Alkaloids*, T. Robinson, 15 May 1970, 814
- Biochemistry of Antibodies*, R. S. Nezlin, 9 Apr. 1971, 150
- The Biochemistry of Inorganic Compounds of Sulphur*, A. B. Roy and P. A. Trudinger, 15 Jan. 1971, 163
- Biochemistry of the Phagocytic Process*, J. Schultz, Ed., 12 Feb. 1971, 561
- The Biological Basis of Medicine*, E. E. Bittar and N. Bittar, Eds., 17 July 1970, 271
- Biological Calcification*, H. Schraer, Ed., 16 Apr. 1971, 254
- The Biological Clock*, F. A. Brown, Jr., J. W. Hastings, and J. D. Palmer, 4 Dec. 1970, 1072
- Biological Conservation*, D. W. Ehrenfeld, 12 June 1970, 1333
- Biological Implications of the Nuclear Age*, 8 May 1970, 698
- Biological Studies of the English Lakes*, T. T. Macan, 18 Dec. 1970, 1293
- Biologie Végétale*, A. Nougarede, R. Heller, R. Champagnat, P. Ozenda, and L. Baillaud, 21 Aug. 1970, 754
- Biology and the Future of Man*, P. Handler, Ed., 21 Aug. 1970, 752
- Biology of Acetabularia*, J. Brachet and S. Bonotto, Eds., 13 Nov. 1970, 725
- The Biology of Higher Cryptogams*, W. T. Doyle, 16 Oct. 1970, 313
- The Biology of Parasitic Flowering Plants*, J. Kuijt, 29 May 1970, 1081
- Biology of Termites*, K. Krishna and F. M. Weesner, Eds., 11 Dec. 1970, 1186
- The Biology of the Porifera*, W. G. Fry, Ed., 8 Jan. 1971, 56
- Biology of the Reptilia*, vols. 1 and 2, C. Gans, Ed., 15 Jan. 1971, 164
- The Biology of Twinning in Man*, M. G. Bulmer, 27 Nov. 1970, 965
- Birth Control in America*, D. M. Kennedy, 4 Sept. 1970, 964
- The Bisected Brain*, M. S. Gazzaniga, 5 Mar. 1971, 885
- Briefwechsel, 1916-1955*, A. Einstein, H. Born, and M. Born, 24 July 1970, 360
- Brown Adipose Tissue*, O. Lindberg, Ed., 2 Apr. 1971, 49
- The Cancer Problem*, A. C. Braun, 2 Oct. 1970, 54
- CO₂: Chemical, Biochemical, and Physiological Aspects*, R. E. Forster, J. T. Edsall, A. B. Otis, and F. J. W. Rough-ton, Eds., 16 Apr. 1971, 255
- Carbonate Rocks*, L. Cayeux, 9 Apr. 1971, 151
- Carl Friedrich Gauss*, T. Hall, 19 Feb. 1971, 666
- Catalysis by Nonmetals*, O. V. Krylov, 26 Feb. 1971, 796
- Catalysis in Chemistry and Enzymology*, W. P. Jencks, 29 May 1970, 1080
- Cell Fusion*, H. Harris, 18 Dec. 1970, 1294
- Cellular Differentiation in Plants and Other Essays*, C. W. Wardlaw, 20 Nov. 1970, 841
- Cellular Dynamics of the Neuron*, S. H. Barondes, Ed., 11 Dec. 1970, 1187
- Cellular Recognition*, R. T. Smith and R. A. Good, Eds., 12 June 1970, 1336
- Chains of Opportunity*, H. C. White, 30 Apr. 1971, 462
- Changing Patterns*, M. Burnet, 12 Mar. 1971, 999
- The Chemical Biology of Fishes*, R. M. Love, 23 Oct. 1970, 431
- Chemical Ecology*, E. Sondheimer and J. B. Simeone, Eds., 5 Mar. 1971, 886
- Chemical Evolution*, M. Calvin, 15 May 1970, 814
- Chemical Mutagens*, L. Fishbein, W. G. Flamm, and H. L. Falk, 2 Apr. 1971, 50
- The Chemical Physics of Ice*, N. H. Fletcher, 21 Aug. 1970, 756
- Chemical Weathering of the Silicate Minerals*, F. C. Loughnan, 26 June 1970, 1567
- Chemicals Controlling Insect Behavior*, M. Beroza, Ed., 16 Apr. 1971, 253
- The Chemistry and Biology of Viruses*, H. Fraenkel-Conrat, 9 Oct. 1970, 154
- The Chemistry of Inorganic Ring Systems*, I. Haiduc, 16 Apr. 1971, 254
- The Chemistry of Life*, J. Needham, Ed., 31 July 1970, 463
- The Chemistry of Plutonium*, J. M. Cleveland, 22 Jan. 1971, 273
- Chemistry of Sphingolipids*, D. Shapiro, 6 Nov. 1970, 617
- Chemistry of the Alkaloids*, S. W. Pelletier, Ed., 26 Mar. 1971, 1233
- The Chemistry of Uranium*, E. H. P. Cordfunke, 18 Dec. 1970, 1295
- The Children of Frankenstein*, H. J. Muller, 8 May 1970, 687
- The Civilizational Process*, D. Ribeiro, 26 June 1970, 1564
- Class and Conformity*, M. L. Kohn, 11 Dec. 1970, 1183
- Classical and Modern Integration Theories*, I. N. Pesin, 9 Apr. 1971, 148
- Clerks and Craftsmen in China and the West*, J. Needham, 8 May 1970, 728
- Climate of the Free Atmosphere*, D. F. Rex, Ed., 22 May 1970, 959

Protection money...



spend it
for safety,
not design
that's already
been done.



If you pore over details in a safety enclosure, you won't get all the protection your money should buy.

The details have been worked out, the unit's been built and a work history exists. At Blickman.

We have a huge library of projects done to meet special needs. It would cost a fortune to duplicate. And it can give added value to your dollars by providing a ready made answer to your problem.

So use the coupon to tell us what interests you. Then we'll tell you how your protection money can go further to protect you and your work.

BLICKMAN

SINCE 1989

S. Blickman, Inc.
6905 Gregory Avenue
Weehawken, N. J. 07087

Send general information on
☐ Vacuum ☐ Biological
☐ Radiological safety enclosures.

I'd like specifics on _____

Name _____

Title _____

Company _____

Address _____

City/State/Zip _____

Circle No. 93 on Readers' Service Card

The Coming of the Golden Age, G. S. Stent, 7 Aug. 1970, 664

Communication in Development, A. Lang, Ed., 12 Mar. 1971, 1000

The Community as an Epidemiologic Laboratory, I. I. Kessler and M. L. Levin, Eds., 16 Apr. 1971, 251

Comparative Physiology of Thermoregulation, vol. 1, G. C. Whittow, Ed., 26 Mar. 1971, 1232

A Comparison of Formative Cultures in the Americas, J. A. Ford, 10 July 1970, 168

The Computation of Chemical Equilibria, F. van Zeggeren and S. H. Storey, 15 Jan. 1971, 163

Computer Models in Genetics, A. Fraser and D. Burnell, 9 Apr. 1971, 147

Computer Simulation in Geology, J. W. Harbaugh and G. Bonham-Carter, 8 Jan. 1971, 58

Congress and the Environment, R. A. Cooley and G. Wandesforde-Smith, Eds., 3 July 1970, 43

Conjugates of Steroid Hormones, H. E. Hadd and R. T. Blickenstaff, 19 Mar. 1971, 1138

The Conservation of Orbital Symmetry, R. B. Woodward and R. Hoffman, 22 Jan. 1971, 272

Control of Insect Behavior by Natural Products, D. L. Wood, R. M. Silverstein, and M. Nakajima, Eds., 16 Apr. 1971, 253

The Corporation and the Campus, R. H. Connery, Ed., 7 May 1971, 551

Crystal Growth in Gels, H. K. Henisch, 23 Oct. 1970, 433.

Current Injection in Solids, M. A. Lampert and P. Mark, 27 Nov. 1970, 966

The Davenport Conspiracy, M. McKusick, 23 Oct. 1970, 429

Dawn of Western Science in Japan: Rangaku Kotohajime, G. Sugita, 8 May 1970, 728

Daylight and Its Spectrum, S. T. Henderson, 13 Nov. 1970, 723

Defending the Environment, J. L. Sax, 2 Apr. 1971, 47

Demography in Early America, J. H. Cassey, 8 May 1970, 730

Description and Comparison in Cultural Anthropology, W. H. Goodenough, 12 Mar. 1971, 996

Development and Evolution of Behavior, L. R. Aronson, E. Tobach, D. S. Lehrman, and J. S. Rosenblatt, Eds., 22 Jan. 1971, 270

Dictionary of Scientific Biography, vols. 1 and 2, C. C. Gillispie, Ed., 6 Nov. 1970, 615

Diprotodon to Detribalization, A. R. Pilling and R. A. Waterman, Eds., 30 Apr. 1971, 461

Direct Nuclear Reaction Theories, N. Austern, 22 Jan. 1971, 273

Diversity and Stability in Ecological Systems, 16 Oct. 1970, 312

The Domestication and Exploitation of Plants and Animals, P. J. Ucko and G. W. Dimbleby, Eds., 8 May 1970, 706

Dynamic Zoogeography, M. D. F. Urdy, 5 June 1970, 1193

Eagles, Hawks and Falcons of the World, L. Brown and D. Amadon, 7 Aug. 1970, 572

plenum
PUBLISHING CORPORATION

NARCOTIC DRUGS

Biochemical Pharmacology

Edited by Doris H. Clouet, New York State Research Institute for Neurochemistry and Drug Addiction, and the Narcotic Addiction Control Commission, New York, New York.

Because the widespread use of narcotic drugs has led to much controversy surrounding drug dependence and methods of treatment, this volume—prepared by leading research workers in the field—comes at a crucial moment in the history of drug research.

CONTRIBUTORS: Herbert L. Borison • Alan F. Casey • Doris H. Clouet • Joseph Cochran • Vincent P. Dole • Henry W. Elliott • Alfred M. Freeman • Max Fink • James M. Fujimoto • Robert George • Louis S. Harris • Carl C. Hug, Jr. • Hiroshi Kaneto • Salvatore J. Mule • Richard Resnick • Jiri Roubicek • Joseph T. Scrafani • Fu-Hsiung Shen • Louis Shuster • Eric J. Simon • Jewell W. Sloan • Alfred A. Smith • A. E. Takemori • John F. Taylor • Jan Volavka • E. Leong Way • James R. Weeks • Marta Weinstock • Arthur Zaks.

506 PAGES MAY 1971 28.00
SBN 306-30495-3

AN INTRODUCTION TO MÖSSBAUER SPECTROSCOPY

Edited by Leopold May, Department of Chemistry, The Catholic University of America, Washington, D.C.

This volume presents articles based on the most current lectures offered at the various institutes conducting courses in Mössbauer spectroscopy.

CONTENTS: Peter G. Debrunner and Hans Frauenfelder, Introduction to the Mössbauer Effect • Jon J. Spijkerman, Instrumentation • David W. Hafemeister, Nuclear Properties Determined from Mössbauer Measurements • John C. Travis, The Electric Field Gradient Tensor • Robert L. Ingalls, Application to Solid-State Physics • J. Danon, Application to Coordination Chemistry • R. H. Herber, Application to Organometallic Compounds • U. Gonser, Mössbauer Spectroscopy and Physical Metallurgy • Leopold May, Application to Biochemical Systems • Appendix A: Nomenclature of Mössbauer Spectroscopy • Appendix B: Bibliographic Sources • Appendix C: Selected References on Mössbauer Spectroscopy • Index.

203 PAGES JANUARY 1971 \$15.00
SBN 306-30477-5

plenum press / consultants bureau

Divisions of Plenum Publishing Corporation
227 W. 17th ST., NEW YORK, NEW YORK 10011

Circle No. 82 on Readers' Service Card

The Earth in Decay, G. L. Davies, 15 Jan. 1971, 161
The Earth's Crust and Upper Mantle, P. J. Hart, Ed., 8 May 1970, 719
Eclosion and Synthesis, S. Bochner, 11 Sept. 1970, 1069
The Ecology of Running Waters, H. B. N. Hynes, 16 Apr. 1971, 251
The Economy of Death, R. J. Barnett, 8 May 1970, 698
The Ecosystem Concept in Natural Resource Management, G. M. Van Dyne, Ed., 29 May 1970, 1079
Electric Power and Thermal Discharges, M. Eisenbud and G. Gleason, Eds., 30 Apr. 1971, 465
Electron Paramagnetic Resonance of Transition Ions, A. Abragam and B. Bleaney, 19 Mar. 1971, 1141
Electron Transfer Reactions of Complex Ions in Solution, H. Taube, 12 Feb. 1971, 563
Elementary Excitations in Solids, A. A. Maradudin and G. F. Nardelli, Eds., 7 Aug. 1970, 574
Elementary Particle Theory, A. D. Martin and T. D. Spearman, 18 Dec. 1970, 1295
Elementary Particle Theory, N. Svart-holm, Ed., 5 June 1970, 1196
Elementary Rheology, G. W. Scott Blair, 5 June 1970, 1194
The Emergence of Man, J. E. Pfeiffer, 8 May 1970, 701
The Emerging Japanese Superstate, H. Kahn, 5 Feb. 1971, 467
An End to Political Science, M. Surkin and A. Wolfe, 5 Mar. 1971, 883
Energy Transfer and Organic Photochemistry, A. A. Lamola and N. J. Turro, 9 Oct. 1970, 155
Enrico Fermi, Physicist, E. Segrè, 28 Aug. 1970, 847
Enzymes and Isoenzymes, D. Shugar, Ed., 27 Nov. 1970, 964
Epidemiology of Mongolism, A. M. Lili-enfeld and C. H. Benesch, 24 July 1970, 362
Ernst Mach, R. S. Cohen and R. J. See-ger, Eds., 5 Feb. 1971, 471
Erythropoietin and the Regulation of Erythropoiesis, S. B. Krantz and L. O. Jacobson, 27 Nov. 1970, 964
Essays in Evolution and Genetics in Hon- or of Theodosius Dobzhansky, M. K. Hecht and W. C. Steere, Eds., 18 Sept. 1970, 1192
The Ethnography of Franz Boas, R. P. Rohner, Ed., 8 May 1970, 704
Ethology, I. Eibl-Eibesfeldt, 8 Jan. 1971, 53
Evolution and the Genetics of Popula- tions, vol. 2, S. Wright, 8 May 1970, 722
The Evolution of Man and Society, C. D. Darlington, 12 June 1970, 1332
Evolution of the Vertebrates, ed. 2, E. H. Colbert, 15 May 1970, 815
Excitation Mechanisms of the Nucleus, J. M. Eisenberg and W. Greiner, 19 Mar. 1971, 1140
Exocrine Glands, S. Y. Botelho, F. P. Brooks, and W. B. Shelley, Eds., 19 June 1970, 1443
Field-Ion Microscopy, K. M. Bowkett and D. A. Smith, 12 Mar. 1971, 1003
Field Ion Microscopy, E. W. Müller and T. T. Tsong, 4 Sept. 1970, 970

who ever heard of a customer designed stereomicroscope



Customer designed power? With easily interchangeable eyepieces and attachment objectives, you can choose the power range you need, from 2x to 200x.

Customer designed versatility? Specify your requirements in light sources, stages, stands, polarizing, measuring and photographic attachments.

Customer designed flexibility? Change your field of investigation, re- search, or observation method tomorrow. The M-5 can quickly change, and grow, with your needs. Just one example as illustrated: Your work takes you to dissection. You need adjustable depth of focus to keep specimen, scalpel or forceps in clear focus. You add the new double iris diaphragm, get greatly increased depth of focus, and retain maximum resolving power with a turn of the control ring.

Want to design your own stereomicroscope? Write for Booklet M-5, or for a demonstration.

WILD®
HEERBRUGG

WILD HEERBRUGG INSTRUMENTS, INC.
FARMINGDALE, NEW YORK 11735

WILD OF CANADA, LTD., 881 LADY ELLEN PLACE, OTTAWA 3, ONTARIO
WILD DE MEXICO, SA, LONDRES 258, MEXICO 6; D.F.

The Fine Structure of the Nervous System, A. Peters, S. L. Palay, and H. de F. Webster, 18 Sept. 1970, 1193.

First and Last Experiments in Muscle Mechanics, A. V. Hill, 11 Sept. 1970, 1068

Fish in Research, O. W. Neuhaus and J. E. Halver, Eds., 9 Oct. 1970, 153

Fission Damage in Crystals, L. T. Chaderton and I. McC. Torrens, 23 Oct. 1970, 433

The Flies of Western North America, F. R. Cole, 12 June 1970, 1334

Flow through Porous Media, R. J. M. De Wiest, Ed., 6 Nov. 1970, 618

Fluorescence Assay in Biology and Medicine, vol. 2, S. Udenfriend, 25 Dec. 1970, 1393

Food in Antiquity, D. Brothwell and P. Brothwell, 8 May 1970, 706

Foundations of Modern Auditory Theory, vol. 1, J. V. Tobias, Ed., 9 Apr. 1971, 147

Free-Access Higher Education, W. W. Willingham, 5 Feb. 1971, 468

General Theory of Population, A. Sauvy, 8 May 1970, 691

Genetic Disorders of Man, R. M. Goodman, Ed., 30 Apr. 1971, 463

Genetic Load, B. Wallace, 8 May 1970, 723

Genetic Organization, vol. 1, E. W. Caspari and A. W. Ravin, Eds., 13 Nov. 1970, 724

Genetic Theory and Abnormal Behavior, D. Rosenthal, 29 Jan. 1971, 367

The Genetics of Bacteria and Their Viruses, ed. 2, W. Hayes, 22 May 1970, 960

Geology of the Moon, T. A. Mutch, 31 July 1970, 465

The Geology of Western Europe, M. G. Ritten, 15 Jan. 1971, 162

Geometrical Optics, H.-G. Zimmer, 4 Sept. 1970, 968

The Greening of America, C. A. Reich, 19 Mar. 1971, 1136

Handbook of Molecular Cytology, A. Lima-De-Faria, Ed., 22 Jan. 1971, 274

Heme and Chlorophyll, G. S. Marks, 4 Dec. 1970, 1071

High-Energy Astrophysics, T. C. Weekes, 8 May 1970, 732

High-Velocity Impact Phenomena, R. Kinslow, Ed., 5 Feb. 1971, 471

Hilbert, C. Reid, 27 Nov. 1970, 965

Historical Studies in the Physical Sciences, vol. 1, R. McCormmach, Ed., 8 May 1970, 735

The History of Cardiac Surgery, 1896-1955, S. L. Johnson, 9 Apr. 1971, 149

A History of Technology and Invention, vols. 1 and 2, M. Daumas, Ed., 8 May 1970, 726

Hot Brines and Recent Heavy Metal Deposits in the Red Sea, E. T. Degens and D. A. Ross, Eds., 19 June 1970, 1442

The Human Body and the Law, D. W. Meyers, 8 Jan. 1971, 53

The Hungry Future, R. Dumont and B. Rosier, 8 May 1970, 690

Hunting for Dinosaurs, Z. Kielan-Jaworowska, 8 May 1970, 719

Hydrological Forecasting, 5 Mar. 1971, 888

The Hypothalamus, W. Haymaker, E.

14 MAY 1971

Anderson, and W. J. H. Nauta, Eds., 2 Oct. 1970, 52

Immunogenetics, W. H. Hildemann, 12 June 1970, 1334

Immunogenetics of Tissue Transplantation, A. Lengerová, 12 June 1970, 1334

Implications of Anti-Ballistic Missile Systems, C. F. Barnaby and A. Boserup, Eds., 8 May 1970, 697

Importance of Fundamental Principles in Drug Evaluation, D. H. Tedeschi and R. E. Tedeschi, Eds., 30 Oct. 1970, 524

Impurity Spectra of Solids, K. K. Rebane, 12 Mar. 1971, 1003

In-Water Photography, L. E. Mertens, 12 Mar. 1971, 1001

Inhalation Carcinogenesis, M. G. Hanna, Jr., P. Nettesheim, and J. R. Gilbert, Eds., 8 Jan. 1971, 55

The Innervation of the Vertebrate Heart, E. F. Hirsch, Ed., 19 Mar. 1971, 1138

Insect and Host Plant, J. deWilde and L. M. Schoonhoven, Eds., 15 Jan. 1971, 164

Insect Hormones, V. B. Wigglesworth, 26 Feb. 1971, 794

Insect Ultrastructure, A. C. Neville, Ed., 23 Apr. 1971, 366

The Insects, R. F. Chapman, 29 May 1970, 1082

The Insects of Australia, 13 Nov. 1970, 722

The Intelligent Eye, R. L. Gregory, 29 Jan. 1971, 365

Interacting Macromolecules, J. R. Cann, 5 Feb. 1971, 470

International Conference on Hong Kong Influenza, 4 Sept. 1970, 965

International Encyclopedia of the Social Sciences, D. L. Sills, Ed., 8 May 1970, 714

International Symposium on Antarctic Glaciological Exploration, A. J. Gow, C. Keeler, C. C. Langway, and W. F. Weeks, Eds., 29 Jan. 1971, 369

International Zoo Yearbook, vol. 10, J. Lucas, Ed., 8 May 1970, 725

The Interneuron, M. A. B. Brazier, Ed., 7 Aug. 1970, 573

Interns, E. Mumford, 7 Aug. 1970, 571

The Interstellar Medium, S. A. Kaplan and S. B. Pikelner, 25 Sept. 1970, 1304

An Introduction to Experimental Aerobiology, R. L. Dimmick, A. B. Akers, R. J. Heckly, and H. Wolochow, Eds., 27 Nov. 1970, 963

An Introduction to Hamiltonian Optics, H. A. Buchdahl, 18 Sept. 1970, 1195

Introduction to Ionospheric Physics, H. Rishbeth and O. K. Garriott, 12 June 1970, 1336

An Introduction to Mathematical Ecology, E. C. Pielou, 3 July 1970, 43

An Introduction to Population Genetics Theory, J. F. Crow and M. Kimura, 19 Feb. 1971, 666

Introduction to the Solar Wind, J. C. Brandt, 18 Sept. 1970, 1195

Ion Exchange in Analytical Chemistry, W. Rieman III and H. F. Walton, 25 Dec. 1970, 1392

Ion-Selective Electrodes, R. A. Durst, Ed., 4 Sept. 1970, 969

The Japanese Challenge, R. Guillain, 5 Feb. 1971, 467

IMPORTANT BOOKS IN SCIENCE FROM FREEMAN . . .

Development and Evolution of Behavior

Essays in Memory of T. C. SCHNEIRLA

Edited by

Lester R. Aronson and Ethel Tobach,
The American Museum of Natural History,
and

Daniel S. Lehrman and Jay S. Rosenblatt,
Rutgers University, Newark

"An important book. By maintaining the intellectual standards that were set by the scientist whose life and work they wished to commemorate, the contributors have served him well." —*Science*, January 22, 1971

1970, 656 pages, 30 illustrations, \$12.00

Adventures in Earth History

Selected, Edited, and with Introductions by
PRESTON CLOUD

University of California, Santa Barbara

"This is truly an exciting book! It shows students how ideas that are usually simply proposed in classic textbooks were really developed." —Robert E. Gernant, University of Wisconsin

1970, 992 pages, 345 illustrations,
cloth \$17.50, paper \$8.95

Stellar Atmospheres

DIMITRI MIHALAS, Yerkes Observatory,
The University of Chicago

"An essential contribution to the literature on model stellar atmospheres and the continuous spectrum of early-type stars." —*Science*, March 19, 1971

1970, 463 pages, 82 illustrations, \$16.00

Plant Cell Physiology:

A Physicochemical Approach

PARK S. NOBEL

University of California, Los Angeles

Written for advanced undergraduate and beginning graduate students, this textbook is the first devoted to a physicochemical treatment of cellular and subcellular topics that are important in plant physiology.

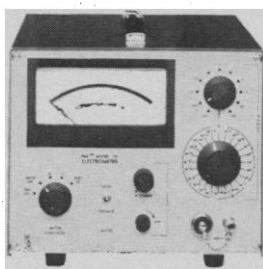
1970, 267 pages, 34 illustrations, \$7.75



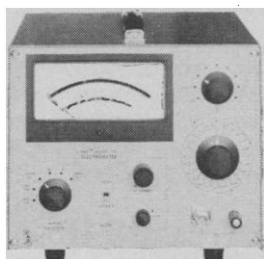
W. H. Freeman and Company

660 Market Street, San Francisco, Ca 94104
Circle No. 96 on Readers' Service Card

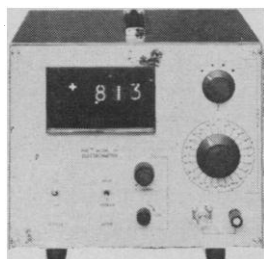
New family of P.A.R. ELECTROMETERS



Model 134 - extended voltage, current, charge and resistance ranges, \$615



Model 135 - internal battery power supply and off-ground operation, \$675



Model 136 - digital display and BCD output, \$995

- Zero stability $< 500 \mu\text{V}/24 \text{ hrs}$;
 $< 75 \mu\text{V}/^\circ\text{C}$; $10^{-15} \text{ A}/24 \text{ hrs}$
- Current offset $< 3 \times 10^{-15} \text{ A}$
- Sensitivities to 1 mV FS
- Overload up to 600 V on all ranges
- 30 μV pk-pk voltage noise
- Guarded input circuits
- Full line of accessories



**PRINCETON APPLIED
RESEARCH CORPORATION**

Box 565, Princeton, New Jersey 08540

Gentlemen:

- ☐ Please send electrometer brochure.
- ☐ Please have a P.A.R. applications engineer contact me.

Name _____

Title _____

Organization _____

Address _____

City _____

State _____ Zip _____

Phone _____ 113

Circle No. 90 on Readers' Service Card

Jean d'Alembert, T. L. Hankins, 12 Mar. 1971, 997

Kalambo Falls Prehistoric Site, vol. 1, J. D. Clark, 3 July 1970, 44

Kangaroos, H. J. Frith and J. H. Calaby, 26 June 1970, 1567

Kinetic Processes in Gases and Plasmas, A. R. Hochstim, Ed., 22 May 1970, 961

Kinship and the Social Order, M. Fortes, 9 Oct. 1970, 151

Knowing and Being, M. Polanyi, 19 June 1970, 1440

Knowledge into Action, 11 Sept. 1970, 1064

Landslides and Their Control, Q. Záruba and V. Mencl, 22 May 1970, 959

Law and the Environment, M. F. Baldwin and J. K. Page, Jr., Eds., 19 Feb. 1971, 665

Law in Culture and Society, L. Nader, Ed., 2 Oct. 1970, 50

Lebesgue's Theory of Integration, T. Hawkins, 9 Apr. 1971, 148

The Life of Reptiles, A. Bellairs, 6 Nov. 1970, 617

The Life of the Honourable Robert Boyle, F.R.S., R. E. W. Maddison, 8 May 1970, 734

Linear Accelerators, P. M. Lapostolle and A. L. Septier, Eds., 25 Dec. 1970, 1392

Living and Fossil Brachiopods, M. J. S. Rudwick, 26 Mar. 1971, 1233

La Logique du Vivant, F. Jacob, 23 Apr. 1971, 364

Lower Palaeolithic Archaeology in Britain, J. Wymer, 31 July 1970, 462

The Lunar Rocks, B. Mason and W. G. Melson, 12 Feb. 1971, 560

Lysosomes in Biology and Pathology, J. T. Dingle and H. B. Fell, Eds., 2 Oct. 1970, 53

The Macrophage, N. N. Pearsall and R. S. Weiser, 18 Sept. 1970, 1194

Magnetic Domains, R. S. Tebble, 19 Mar. 1971, 1140

Magnetism and Metallurgy, A. E. Berkowitz and E. Kneller, Eds., 12 Mar. 1971, 1002

The Makers of Modern Geography, R. E. Dickinson, 8 May 1970, 715

Mammals in Hawaii, P. Q. Tomich, 3 July 1970, 45

Man and Animals in the Zoo, H. Hediger, 8 May 1970, 725

Man's Impact on the Global Environment, 29 Jan. 1971, 365

Marine Food Chains, J. H. Steele, Ed., 9 Apr. 1971, 149

Materials Science and Engineering in the United States, R. Roy, Ed., 16 Oct. 1970, 314

Mathematical Methods in Solid State and Superfluid Theory, R. C. Clark and G. H. Derrick, Eds., 22 May 1970, 963

Mathematical Topics in Population Genetics, K. Kojima, Ed., 12 Feb. 1971, 562

The Mathematics of Heredity, G. Malécot, 8 May 1970, 721

The Measurement of Sensation, C. W. Savage, 15 Jan. 1971, 165

Mechanism and Materialism, R. E. Schofield, 11 Sept. 1970, 1068

Medicine in Medieval England, C. H. Talbot, 8 Jan. 1971, 55

COLD POWER

SAVANT RECIRCULATING WATER COOLERS



The ONLY
way to
dissipate
LARGE HEAT
LOADS!

FLOOR MODEL—RWC-50
½ H.P. or 4500 BTU
Price: \$1,080.00

DON'T WASTE WATER DOWN THE DRAIN!
Recirculate and control temperature at the same time.

One part of a dependable instrumentation system for the following equipment:

- High Voltage Electrophoresis
- Column Chromatography
- Ultracentrifuges
- Electron Microscopes

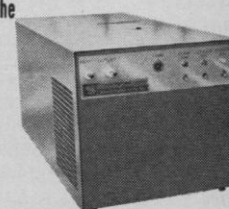


TABLE TOP MODEL—RWC-25
¼ H.P. or 1500 BTU
Price: \$760.00

CHECK THESE FEATURES: Noise-free positive displacement pump • Compact, modern designs...no exposed operating components • Completely mobile, easily moved to area where most needed. **DON'T WASTE WATER DOWN THE DRAIN...** write for detailed instrument literature #RWC.



Savant Instruments, Inc.

221 Park Avenue • Hicksville, New York 11801

(516) 935-8774

Circle No. 84 on Readers' Service Card

Membranes of Mitochondria and Chloroplasts, E. Racker, Ed., 4 Sept. 1970, 967

Men, Money, and Medicine, E. Ginzberg, 26 June 1970, 1563

Mental Health and Social Policy, D. Mechanic, 15 May 1970, 812

The Methodological Heritage of Newton, R. E. Butts and J. W. Davis, Eds., 9 Oct. 1970, 153

Methods of Molecular Quantum Mechanics, R. McWeeny and B. T. Sutcliffe, 26 Feb. 1971, 795

Mikhail Vasil'evich Lomonosov on the Corpuscular Theory, 26 Mar. 1971, 1231

Molecular Asymmetry in Biology, R. Bentley, 30 Oct. 1970, 525

The Molecular Basis of Gene Expression, B. M. Lewin, 7 May 1971, 551

The Molecular Basis of Mutation, J. W. Drake, 16 Apr. 1971, 252

Molecular Biology and the Origin of Species, C. Manwell and C. M. A. Baker, 26 Mar. 1971, 1231

Molecular Biology of the Gene, ed. 2, J. D. Watson, 26 Feb. 1971, 795

Molecular-Genetic Mechanisms of Development, Zh. A. Medvedev, 7 May 1971, 553

Molecules and Life, M. V. Vol'kenshtein, 19 Mar. 1971, 1139

Moon Rocks, H. S. F. Cooper, Jr., 12 Feb. 1971, 560

Multiple Equilibria in Proteins, J. Steinhart and J. A. Reynolds, 9 Oct. 1970, 154

Mutation as Cellular Process, G. E. W. Wolstenholme and M. O'Connor, Eds., 26 June 1970, 1566

My Life and My Views, M. Born, 24 July 1970, 360

My Several Lives, J. B. Conant, 8 May 1970, 688

My World Line, G. Gamow, 12 Mar. 1971, 997

The Myxomycetes, G. W. Martin and C. J. Alexopoulos, 4 Sept. 1970, 966

The National Science Foundation, D. Schaffter, 29 May 1970, 1080

Natural History Collections, D. M. Cohen and R. F. Cressey, Eds., 8 May 1970, 726

Natural Resource Information for Economic Development, O. C. Herfindahl, 25 Sept. 1970, 1303

Natural Substances Formed Biologically from Mevalonic Acid, T. W. Goodwin, Ed., 4 Sept. 1970, 968

The Nature and Growth of Modern Mathematics, E. E. Kramer, 23 Oct. 1970, 432

Nineteenth-Century Spectroscopy, W. McGucken, 6 Nov. 1970, 618

Noise and Man, W. Burns, 29 May 1970, 1079

Nonbenzenoid Aromatics, vol. 1, J. P. Snyder, Ed., 12 Mar. 1971, 1002

Northern Plainsmen, J. W. Bennett, 5 Mar. 1971, 884

Nuclear Power and the Public, H. Foreman, Ed., 26 Feb. 1971, 790

Numerical Taxonomy, A. J. Cole, Ed., 22 May 1970, 961

Optical Methods in Biology, E. M. Slayter, 11 Sept. 1970, 1070

14 MAY 1971

SCIENCE in the SEVENTIES

new texts from F. A. DAVIS

BIOLOGICAL BASIS OF CHEMOTHERAPY OF INFECTIONS AND INFESTATIONS

By HARRY SENECA, MD, MS Med., FACP

BIOMEDICAL ENGINEERING

By J. H. U. BROWN, PhD, JOHN JACOBS, PhD, and LAWRENCE STARK, MD

LABORATORY TESTS IN DIAGNOSIS AND INVESTIGATION OF ENDOCRINE FUNCTION

New (2nd) Edition By ROBERTO F. ESCAMILLA, MD

CLINICAL HEMATOLOGY IN MEDICAL PRACTICE

By G. C. de GRUCHY, MD, FRACP, MRCP, MCPA

PRINCIPLES OF MEASUREMENT FOR ANESTHETISTS

By M. K. SYKES, MA, MB, BChir, DA, FFARCS and M. D. A. VICKERS, MB, BS, MRCS, FFARCS

SCIENTIFIC FOUNDATIONS OF ANESTHESIA

Edited by CYRIL SCURR, MVO, FFARCS and STANLEY FELDMAN, BSc, FFARCS

INTRODUCTION TO PHYSICAL BIOCHEMISTRY

New (2nd) Edition By HENRY B. BULL, BS, PhD

AN ANATOMICAL OUTLINE OF THE SPINAL CORD OF THE PIGEON

By L. M. van den AKKER

COMPARATIVE ANATOMICAL ASPECTS OF THE MAMMALIAN BRAIN STEM AND THE CORD

(In Two Volumes) By W. J. C. VERHAART, MD

MONONUCLEAR PHAGOCYTES

Edited by RALPH VAN FURTH

ANIMAL CELL CULTURE METHODS

By G. D. WASLEY and J. W. MAY

VENTILATION/BLOOD FLOW AND GAS EXCHANGE

New (2nd) Edition By JOHN B. WEST, MD, PhD

INTERNATIONAL BIOLOGICAL PROGRAMME

15 Handbooks now available.

send for 1971 catalog

F. A. DAVIS COMPANY

Blackwell Scientific Publications

1915 Arch Street, Philadelphia, Pa. 19103

Circle No. 40 on Readers' Service Card

Oxford



The Face of the Deep

By BRUCE C. HEEZEN, *Lamont-Doherty Geological Observatory, Columbia University*, and CHARLES D. HOLLISTER, *Woods Hole Oceanographic Institution*.
Nov. 1971 700 pp. 558 illus. cloth \$25.00
paper \$12.50

Exploring the Universe

SECOND EDITION

Edited by LOUISE B. YOUNG, *Science Editor, American Foundation for Continuing Education*.
1971 650 pp. 200 illus. cloth \$12.50
paper \$6.50

Geology

SECOND EDITION

By WILLIAM C. PUTNAM; Revised by ANN BRADLEY BASSETT.
1971 608 pp. 300 illus. trade edition \$14.95
text edition \$10.00

Introduction to Phase Transitions and Critical Phenomena

By H. E. STANLEY, *Massachusetts Institute of Technology*.
May 1971 352 pp. \$9.50

Biology and the Future of Man

Edited by PHILIP HANDLER, *President, National Academy of Sciences*.
1970 928 pp. illus. cloth \$12.50 paper \$4.95

Nucleus and Cytoplasm

SECOND EDITION

By HENRY HARRIS, *Oxford University*.
1970 200 pp. 34 illus. cloth \$8.75
paper \$3.75

An Introduction to the Study of Man

By J. Z. YOUNG, *University College, London*.
1971 800 pp. 256 figs. \$10.00

Frontiers in Neuroendocrinology, 1971

Edited by LUCIANO MARTINI, *Istituto di Farmacologia e di Terapia, Milan*, and WILLIAM F. GANONG, *University of California, San Francisco Medical Center*.
1971 450 pp. illus. \$25.00

OXFORD UNIVERSITY PRESS

200 Madison Avenue,
New York, N.Y. 10016

Circle No. 80 on Readers' Service Card

758

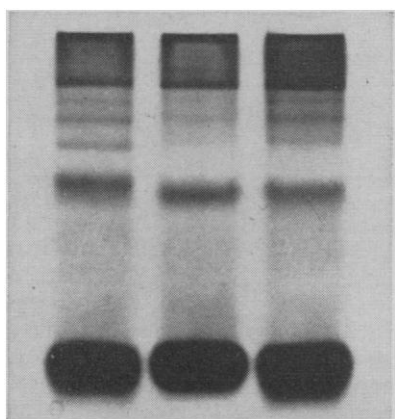
- Optical Rotatory Dispersion of Proteins and Other Macromolecules*, B. Jirgensons, 22 May 1970, 962
The Ore Minerals and Their Intergrowths, P. Ramdohr, 14 Aug. 1970, 667
Organ Culture, J. A. Thomas, Ed., 25 Dec. 1970, 1393
Organic Charge-Transfer Complexes, R. Foster, 4 Dec. 1970, 1076
Organic Geochemistry, G. Eglinton and M. T. J. Murphy, Eds., 3 July 1970, 46
Organization and Control in Prokaryotic and Eukaryotic Cells, 11 Sept. 1970, 1069
Organization and Development of the Embryo, R. G. Harrison, 8 May 1970, 724
Origin of Anorthosite and Related Rocks, Y. W. Isachsen, Ed., 7 Aug. 1970, 575
Outlines of Perennial Crop Breeding in the Tropics, F. P. Ferwerda and F. Wit, Eds., 13 Nov. 1970, 724
Ovarian Development in Drosophila melanogaster, R. C. King, 29 Jan. 1971, 368
The Pacific Salmon Fisheries, J. A. Crutchfield and G. Pontecorvo, 8 May 1970, 737
The Padé Approximant in Theoretical Physics, G. A. Baker, Jr., and J. L. Gammel, Eds., 23 Apr. 1971, 368
Pain, A. Soulaïrac, J. Cahn, and J. Charpentier, Eds., 14 Aug. 1970, 666
Palaeopathology, P. A. Janssens, 26 June 1970, 1565
The Papers of Robert H. Goddard, E. C. Goddard and G. E. Pendray, Eds., 30 Oct. 1970, 522
Particles, Sources, and Fields, J. Schwinger, 5 Mar. 1971, 889
Partners in Science, J. Watt and J. Black; E. Robinson and D. McKie, Eds., 23 Oct. 1970, 430
Pathogenesis and Etiology of Demyelinating Diseases, K. Burdzy and P. Kallos, Eds., 12 June 1970, 1335
Pathogenesis of Diabetes Mellitus, E. Cerasi and R. Luft, Eds., 12 Mar. 1971, 1000
The Pattern of Vertebrate Evolution, L. B. Halstead, 15 May 1970, 815
Paul Ehrenfest, vol. 1, M. J. Klein, 12 Feb. 1971, 558
Perceptual and Cognitive Aspects of Body Experience, F. C. Shontz, 15 May 1970, 813
The Periodic System of Chemical Elements, J. W. van Spronsen, 8 May 1970, 733
The Pharmacology of Synapses, J. W. Phillis, 19 Mar. 1971, 1139
Photosynthesis, E. Rabinowitch and Govindjee, 28 Aug. 1970, 848
Photomicrography, R. P. Loveland, 30 Apr. 1971, 465
Physical Control of the Mind, J. M. R. Delgado, 14 Aug. 1970, 666
Physical Principles of Ultrasonic Diagnosis, P. N. T. Wells, 20 Nov. 1970, 843
Physical Ultrasonics, R. T. Beyer and S. V. Letcher, 20 Nov. 1970, 843
Physician to the West, H. D. Shapiro and Z. L. Miller, Eds., 27 Nov. 1970, 962
Physics in My Generation, ed. 2, M. Born, 24 July 1970, 360
Physics of Ice, N. Riehl, B. Bullemer, and H. Engelhardt, Eds., 3 July 1970, 46
Physiological Aspects of Crop Yield, J. D. Eastin, F. A. Haskins, C. Y. Sullivan, and C. H. M. van Bavel, Eds., 8 Jan. 1971, 56
The Physiological Aspects of Photosynthesis, O. V. S. Heath, 18 Sept. 1970, 1193
The Physiological Mechanisms of Cerebral Blood Circulation, A. I. Naumenko and N. N. Benua, 23 Oct. 1970, 431
The Physiology of Insect Reproduction, F. Englemann, 29 Jan. 1971, 368
Picture Processing by Computer, A. Rosenfeld, 10 July 1970, 166
Pieces of the Action, V. Bush, 20 Nov. 1970, 840
Pigments in Pathology, M. Wolman, Ed., 21 Aug. 1970, 753
The Pill on Trial, P. Vaughan, 18 Dec. 1970, 1292
Plant Virology, R. E. F. Matthews, 22 Jan. 1971, 275
Plasma Waves in Space and in the Laboratory, J. O. Thomas and B. J. Landmark, Eds., 12 Feb. 1971, 563
Poisonous and Venomous Marine Animals of the World, vols. 2 and 3, B. W. Halstead, 2 Apr. 1971, 50
Politics and the Community of Science, J. Haberer, 10 July 1970, 165
The Politics of Ecology, J. Ridgeway, 18 Dec. 1970, 1291
Politics of Social Research, R. L. Beals, 11 Sept. 1970, 1064
The Politics of Weapons Innovation, M. H. Armacost, 8 May 1970, 698
Polymer Conformation and Configuration, F. A. Bovey, 22 Jan. 1971, 273
Polysaccharides, G. O. Aspinall, 23 Apr. 1971, 367
'Population Control' through Nuclear Pollution, A. R. Tamplin and J. W. Goffman, 12 Feb. 1971, 559
Population Genetics in Animal Breeding, F. Pirchner, 26 June 1970, 1566
Population, Resources, Environment, P. R. Ehrlich and A. H. Ehrlich, 23 Oct. 1970, 428
Potassium-Argon Dating, G. B. Dalrymple and M. A. Lanphere, 2 Oct. 1970, 54
Practical Electron Microscopy for Biologists, G. A. Meek, 2 Apr. 1971, 51
Prehistory and Human Ecology of the Deh Luran Plain, F. Hole, K. V. Flannery, and J. A. Neely, 8 May 1970, 707
Preventing the Spread of Nuclear Weapons, C. F. Barnaby, Ed., 8 May 1970, 697
The Primate Brain, C. R. Noback and W. Montagna, Eds., 2 Apr. 1971, 48
Principal Diseases of Marine Fish and Shellfish, C. J. Sindermann, 4 Sept. 1970, 967
Principles and Methods of Plant Biosystematics, O. T. Solbrig, 30 Oct. 1970, 525
Principles and Techniques of Electron Microscopy, M. A. Hayat, 2 Apr. 1971, 51
Principles of Comparative Anatomy of Invertebrates, W. N. Beklemishev, 17 July 1970, 271
The Principles of Human Biochemical Genetics, H. Harris, 4 Dec. 1970, 1071
Principles of Perceptual Learning and Development, E. J. Gibson, 22 May 1970, 958

SCIENCE, VOL. 172

Gel Electrophoresis Is Easy To Teach



When You Show Them These Results



With the \$110 E-C Minicell you can teach the principles of gel electrophoresis in one 3-hour lab session. Ready-to-use Minicell comes complete with chemicals for 20 gels, enough for 60 analyses such as general protein, hemoglobin, enzymes, and haptoglobins. Precision analytical system is rugged and compact; has built-in power supply.

For more information, for quantity prices, for shipping date, call E-C at (215) 382-9100 or write:



E-C Apparatus Corporation
755 St. Marks St.
Philadelphia, Pa. 19104

A Milton Roy Company

Circle No. 94 on Readers' Service Card

14 MAY 1971

- Principles of Polymerization*, G. Odian, 19 Mar. 1971, 1140
- Problems of the Logic of Scientific Knowledge*, P. V. Tavanec, Ed., 19 Feb. 1971, 662
- Profession of Medicine*, E. Freidson, 28 Aug. 1970, 846
- Progress in Comparative Endocrinology*, M. R. N. Prasad, Ed., 19 June 1970, 1443
- Progress in Molecular and Subcellular Biology*, vol. 1, B. W. Agranoff, J. Davies, F. E. Hahn, H. G. Mandel, N. S. Scott, R. M. Smillie, and C. R. Woese, 4 Dec. 1970, 1072
- Psychophysical Analysis of Visual Space*, J. C. Baird, 13 Nov. 1970, 723
- Pulse Radiolysis*, M. S. Matheson and L. M. Dorfman, 7 May 1971, 553
- Race to Oblivion*, H. York, 31 July 1970, 460
- Radiotelescopes*, W. N. Christiansen and J. A. Högbom, 8 May 1970, 732
- Recent Progress in Combinatorics*, W. T. Tutte, Ed., 29 May 1970, 1082
- Recent Progress in Hormone Research*, vol. 25, E. B. Astwood, Ed., 12 June 1970, 1335
- Regulation of Hematopoiesis*, A. S. Gordon, Ed., 16 Apr. 1971, 253
- Remote Sensing*, 25 Sept. 1970, 1302
- Remote Sensing in Ecology*, P. J. Johnson, Ed., 25 Sept. 1970, 1302
- Research and the Individual*, H. K. Beecher, 7 Aug. 1970, 571
- The Ribosome*, A. S. Spirin and L. P. Gavrilova, 28 Aug. 1970, 849
- The Ritual Process*, V. W. Turner, 8 May 1970, 702
- Role of Cyclic AMP in Cell Function*, P. Greengard and E. Costa, Eds., 26 Mar. 1971, 1229
- The Roots of Mankind*, J. Napier, 26 Mar. 1971, 1230
- Rutherford and Boltwood*, L. Badash, Ed., 8 May 1970, 736
- The Scalpel and the Heart*, R. G. Richardson, 9 Apr. 1971, 149
- Science and Society*, H. Rose and S. Rose, 25 Sept. 1970, 1299
- Science, History and Hudson Bay*, C. S. Beals, Ed., 20 Nov. 1970, 841
- Science in France in the Revolutionary Era*, M. P. Crosland, Ed., 17 July 1970, 270
- Science in the British Colonies of America*, R. P. Stearns, 19 Feb. 1971, 664
- Science in Russian Culture, 1861-1917*, A. Vucinich, 7 May 1971, 550
- The Scientific Evolution of Psychology*, vol. 2, J. R. Kantor, 8 May 1970, 711
- Searching Image in Carrion Crows*, H. Croze, 19 Feb. 1971, 667
- The Second International Meeting on Ferroelectricity*, 12 Feb. 1971, 564
- Seeds of Change*, L. R. Brown, 8 May 1970, 690
- La sélection naturelle*, C. Limoges, 30 Oct. 1970, 523
- Sensory Deprivation*, J. P. Zubek, Ed., 8 May 1970, 709
- Separation of Flow*, P. K. Chang, 23 Oct. 1970, 432
- Serendipity in St. Helena*, I. Shine, 18 Dec. 1970, 1292
- The Shadow of the Telescope*, G. Buttman, 8 May 1970, 731

Oxford



"Ab Initio" Molecular Orbital Calculations for Chemists

By W. G. RICHARDS, *Brasenose College, Oxford*; and J. A. HORSLEY. *Ab initio* calculations have until recently been the province of pure theoreticians, and the method has been thought too complicated to be worth the trouble of a non-specialist. Recent developments in computer programming have changed the situation, now bringing these calculations within the realm of the non-theoretical scientist. This book provides the necessary background information for those interested in pursuing the process. *Text figures.* (Oxford Science Research Papers 4). *Paper, \$4.00*

Large Elastic Deformations SECOND EDITION

By A. E. GREEN, *Oxford University*; and J. E. ADKINS, *University of Nottingham*. This book presents a systematic exposition of some of the main topics of the non-linear theory of large elastic deformations. An examination of the strain-energy function for the crystal classes and various forms of the stress strain relations is followed by chapters on exact solutions, plane strain, plane stress and membrane theory, and approximation methods. *24 text figures, formulas.* *\$15.25*

Theory of Metasomatic Zoning

By D. S. KORZHINSKII, *Institute of the Geology of Ore-deposits, Moscow*. In this volume the author derives systems of differential equations for infiltration and diffusion metasomatic zoning and uses them to study the main features of these processes. Also the signs that distinguish between infiltration and diffusion formations are examined. Various cases of infiltration and diffusion metasomatism are considered, and a theory of bimetasomatism is developed. *45 text figures.* *\$8.00*

Electronics for Nuclear Particle Analysis

Edited by L. J. HERBST, *Teesside Polytechnic*. This volume is based on a series of lectures given once a year at the Education and Training Centre of the Atomic Energy Research Establishment, Harwell, sponsored by the United Kingdom Atomic Energy Authority Research Group. The book covers the general principles of nuclear particle analysis and concentrates on the design of electronic nucleonic instrumentation. *Tables, graphs.* (Harwell Post-Graduate Series.) *Paper, \$17.75*

OXFORD UNIVERSITY PRESS
200 Madison Avenue,
New York, N.Y. 10016

Circle No. 81 on Readers' Service Card

759

NOW! 35% off CRC's Automated Labwashers

SAVE! Buy direct from
the manufacturer.
(offer expires June 30, 1971)



The new CRC Labwasher® offers improved glassware washing plus plasticware cycle.

Sets up in seconds. No costly installation charges. And no inconvenience. Quick-disconnect coupling includes universal adapter for attachment to any water tap. Smooth-working ball-type casters lock for stable operation. And a three-wire cord—over eight feet long—makes direct connection to distant outlets possible. Operates on 115 Volts — 60 cycles.

They cut glass labware breakage in half, and soon pay for themselves in man-hours saved.

- Choice of tap or distilled water rinses (up to 3)
- Dual-Temp Forced-Air Drying
- Booster heater for elevating and maintaining water temperatures
- Convenient front loading with roll-out racks
- 16 stainless steel accessory racks handle glass labware or plasticware

For more information,
request Bulletin No. A-15



THE
**CHEMICAL
RUBBER**
CO.

18901 Cranwood Parkway
Cleveland, Ohio 44128

Circle No. 89 on Readers' Service Card

- A Short History of Botany in the United States*, J. Ewan, Ed., 18 Sept. 1970, 1194
Short-Term Changes in Neural Activity and Behaviour, G. Horn and R. A. Hinde, Eds., 19 Feb. 1971, 667
Sir Charles Lyell's Scientific Journals on the Species Question, L. G. Wilson, Ed., 14 Aug. 1970, 663
Social Behaviour in Birds and Mammals, J. H. Crook, Ed., 19 Feb. 1971, 668
Social Character in a Mexican Village, E. Fromm and M. Maccoby, 22 Jan. 1971, 271
The Social Scientist in American Industry, M. Radom, 26 Feb. 1971, 794
Space through the Ages, C. Lanczos, 11 Dec. 1970, 1183
Spectroscopic Astrophysics, G. H. Herbig, Ed., 27 Nov. 1970, 962
Star Atlas of Reference Stars and Non-stellar Objects, 9 Oct. 1970, 156
Statistical Power Analysis for the Behavioral Sciences, J. Cohen, 10 July 1970, 167
Statistics in Endocrinology, J. W. McArthur and T. Colton, Eds., 30 Apr. 1971, 464
Stellar Atmospheres, D. Mihalas, 19 Mar. 1971, 1142
Stellar Spectroscopy, M. Hack and O. Struve, 4 Sept. 1970, 969
Steroid Hormones and Metabolism, K. W. McKerns, 24 July 1970, 363
A Strategy for Education, H. T. Epstein, 25 Dec. 1970, 1394
Streams of Culture, G. de Beer, 8 May 1970, 717
Strength of Biological Materials, H. Yamada; F. Gaynor Evans, Ed., 8 Jan. 1971, 57
The Structure and Chemistry of Solid Surfaces, G. A. Somorjai, Ed., 15 May 1970, 815
Structure-Function Relationships of Proteolytic Enzymes, P. Desnuelle, H. Neurath, and M. Ottesen, Eds., 7 May 1971, 552
Studies in Animal and Human Behaviour, vol. 1, K. Lorenz, 8 May 1970, 700
Studies of Appalachian Geology, 21 Aug. 1970, 754
Subsistence Agriculture and Economic Development, C. R. Wharton, Jr., Ed., 6 Nov. 1970, 616
Surface and Colloid Science, E. Matijević and F. R. Eirich, Eds., 5 June 1970, 1197
Survey of Organic Syntheses, C. A. Buehler and D. E. Pearson, 16 Apr. 1971, 255
Symmetry and Function of Biological Systems at the Macromolecular Level, A. Engström and B. Strandberg, Eds., 8 May 1970, 723
The Synthesis and Characterization of Inorganic Compounds, W. L. Jolly, 27 Nov. 1970, 966
Syphilis and Other Venereal Diseases, W. J. Brown, J. F. Donohue, N. W. Axnick, J. H. Blount, N. H. Ewen, and O. G. Jones, 18 Dec. 1970, 1296
The Task of Gestalt Psychology, W. Köhler, 8 May 1970, 712
Technological Change, E. G. Mesthene, 19 June 1970, 1442
The Tenrecs, J. F. Eisenberg and E. Gould, 31 July 1970, 464



POLYETHYLENE

pipetting device



• safe

• precise

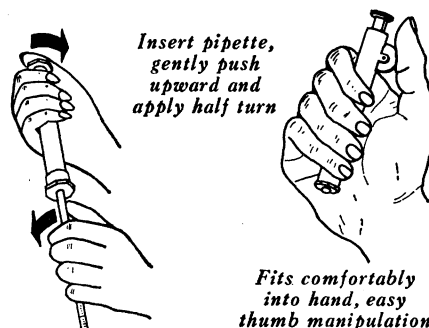
• accurate



FOR USE WITH ALL
STANDARD PIPETTES

Accurate and precise pipetting made easy. Safe, even with corrosive or toxic liquids. Easy to operate with one hand without fatigue. Easily taken apart for cleaning. Pipettes fit easily, rotate knurled wheel forward or backward for precise filling or emptying. Rapid emptying by depressing plunger.

Four sizes for pipettes from 0.2 ml through 25 ml. Each size color coded in separate color . . . yellow, blue, green or red.



See your nearest laboratory supply dealer.

Send for our 84 page catalog 970.
For your FREE copy write Dept. E-5

BEL-ART PRODUCTS
PEQUANNOCK, N. J. 07440

Circle No. 91 on Readers' Service Card

Theoretical Acoustics, P. M. Morse and K. U. Ingard, 9 Oct. 1970, 156
Theories of Abstract Automata, M. A. Arbib, 2 Oct. 1970, 55
Theories of Light, A. I. Sabra, 4 Dec. 1970, 1074
Theory of Automata, A. Salomaa, 2 Oct. 1970, 55
Theory of Fish Population Dynamics as the Biological Background for Rational Exploitation and Management of Fishery Resources, G. V. Nikolskii, 24 July 1970, 363
Theory of Voting, R. Farquharson, 17 July 1970, 269
Theory of Weak Interactions in Particle Physics, R. E. Marshak, Riazuddin, and C. P. Ryan, 22 May 1970, 962
Thin Film Phenomena, K. L. Chopra, 28 Aug. 1970, 850
Three Body Problem in Nuclear and Particle Physics, J. S. C. McKee and P. M. Rolph, Eds., 12 Feb. 1971, 562
Tools of the Old and New Stone Age, J. Bordaz, 25 Dec. 1970, 1391
Topics in Organic Mass Spectrometry, A. L. Burlingame, Ed., 27 Nov. 1970, 967
Toward a History of Geology, C. J. Schneer, Ed., 8 May 1970, 718
Toward Century 21, C. S. Wallia, Ed., 8 May 1970, 687
Traité de Zoologie, P.-P. Grassé, Ed., tome 14, *Reptiles*, fasc. 2, 15 Jan. 1971, 164
II-VI Compounds, B. Ray, 28 Aug. 1970, 849
Two Worlds of Childhood, U. Bronfenbrenner, 18 Sept. 1970, 1190
The Uneasy Partnership, G. M. Lyons, 11 Sept. 1970, 1064
Urban Dynamics, J. W. Forrester, 8 May 1970, 693
The Value of the Weather, W. J. Maunder, 8 Jan. 1971, 57
Visual Thinking, R. Arnheim, 24 July 1970, 361
Volcanism and the Upper Mantle, G. S. Gorshkov, 19 Mar. 1971, 1141
Volcanoes in the Sea, G. A. Macdonald and A. T. Abbott, 5 Mar. 1971, 887
Water Fluoridation, F. J. McClure, 25 Sept. 1970, 1301
Weather and Life, W. P. Lowry, 12 June 1970, 1334
Western Medical Pioneers in Feudal Japan, J. Z. Bowers, 8 May 1970, 728
Whisker Technology, A. P. Levitt, Ed., 23 Apr. 1971, 367
William Whewell's Theory of Scientific Method, R. E. Butts, Ed., 5 June 1970, 1195
Women in the Field, P. Golde, Ed., 19 Mar. 1971, 1135
The World Food Problem, W. W. Cochran, 8 May 1970, 690
The World's a Zoo, J. Perry, 8 May 1970, 725
The Yeasts, ed. 2, J. Lodder, Ed., 7 May 1971, 552
The Yeasts, vol. 1, A. H. Rose and J. S. Harrison, Eds., 26 June 1970, 1565
Zinacantan, E. Z. Vogt, 11 Dec. 1970, 1185

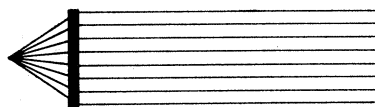
14 MAY 1971

For classroom instructors, engineers, physics laboratories, systems designers, research and development!

INTRODUCING THE FRESNEL LENS LAB KIT by Cryton Optics, Inc.

A high quality 6-lens kit that brings the science of Fresnel optics and its applications right to your fingertips!

Let the world of Fresnel optics open up for you. Here in one compact, durable and easily storable kit, you can experiment with various applications for Fresnel lenses such as: light projection systems, simple telescopes, simple microscopes, field lenses, condenser systems, illumination systems and collimators.



In addition, a multitude of lens properties can be studied: resolution, distortions, lateral and angular magnification, paraxial approximation, compound lenses, field curvature, real/virtual image—and more.

We've designed these 6" diameter acrylic lenses into a 6¾" square format to provide ease in handling. And based

upon your inquiries, we selected those lens characteristics that would be of greatest interest to the widest market. This enables us to offer you the kit at this low price.

The Fresnel Lens Lab Kit—from Cryton Optics, Inc.—a great opportunity... a great buy. Send your purchase order today—or use the coupon below.

	Specifications		No. of grooves per inch
	Focal Length inches	mm	
1.	3	76	100
2.	6	152	125
3.	6*	152	100
4.	10	254	100
5.	—10	—254	100
6.	12	305	50

*NOTE: Spherical aberration corrected for 12" object and image conjugate distances. Other lenses corrected to eliminate spherical aberration at infinity.

Please send me the
Cryton Optics
FRESNEL LENS LAB KIT.

\$48⁵⁰

Cryton Optics, Inc., 7 Skillman Street
Roslyn, New York 11576 Dept. C-103

☐ Ship C.O.D. Upon delivery, I will pay postman \$48.50 plus a small charge for postage and handling. ☐ I enclose \$48.50 (in check or money order). Cryton will pay for postage and handling.

Note: No C.O.D.'s outside of continental U.S.A. For overseas shipment, add \$4.25 to cover airmail postage and handling.

Ship to _____

Address _____

City _____ State _____ Zip _____

Attn. of _____

Please allow 2-3 weeks for delivery.

Circle No. 44 on Readers' Service Card

761