

ments and free wave and wave-guide methods. The last section is devoted to actual experimental results for typical dielectric materials.

These articles have been written in such a way as to be clear and intelligible and, at the same time, contain as many of the important developments as possible. Extensive references and bibliography are given. This volume should be indispensable as a reference book in this field as well as valuable for anyone wishing to obtain quickly a knowledge of any of the subjects treated.

EDWARD S. AKELEY

Department of Physics,  
Purdue University

## New Books

*The Strangest Things in the World.* A book about extraordinary manifestations of nature. Thomas R. Henry. Public Affairs Press, Washington, D.C., 1958. 208 pp. \$3.50.

*Current Studies in Psychology.* F. J. McGuigan and Allen D. Calvin. Appleton-Century-Crofts, New York, 1958, 226 pp. \$2.65.

*The Living Body.* A text in human physiology. Charles Herbert Best and Norman Burke Taylor. Holt, New York, ed. 4, 1958. 767 pp. \$6.95.

*Introduction to Electromagnetic Engineering.* Roger F. Harrington. McGraw-Hill, New York, 1958. 324 pp. \$8.

*Mathematical Theory of Compressible Fluid Flow.* Richard von Mises; completed by Hilda Geiringer and G. S. Ludford. Academic Press, New York, 1958. 527 pp. \$15.

*Directed Studies in Introductory College Geography.* George T. Renner and Hugh C. Brooks. Appleton-Century-Crofts, New York, 1958. 167 pp. \$2.36.

*Elementary Practical Organic Chemistry.* pt. III, *Quantitative Organic Analysis.* Arthur I. Vogel. Longmans, Green, New York, 1958. 240 pp. \$4.50.

*Essentials of College Geography.* C. Langdon White, George T. Renner, Robert T. Novak. Appleton-Century-Crofts, New York, 1958. 588 pp. \$6.

*Glaucoma.* Transactions of the second conference 3-5 Dec. 1956. Princeton, N.J. Frank W. Newall, Ed. Josiah Macy, Jr. Foundation, New York, 1958. 245 pp. \$4.95.

*College Chemistry.* Paul R. Frey. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1958. 751 pp. \$6.95.

*The Exploration of Space by Radio.* R. Hanbury Brown and A. C. B. Lovell. Wiley, New York, 1958. 219 pp. \$6.50.

*Chemical Publications, Their Nature and Use.* M. G. Mellon. McGraw-Hill, New York, ed. 3, 1958. 337 pp. \$7.

*Bird Hybrids.* A check-list with bibliography. Tech. Commun. No. 13. Annie P. Gray. Commonwealth Agricultural Bureaux, Farnham Royal, Bucks, England, 1958. 400 pp. 50s.

*The Russian Literature of Satellites.* pt. I. International Physical Index, New York, 1958. 181 pp. \$10.

*The Garden of Chaparral.* Plants of the lower Rio Grande Valley. Elizabeth M. Riess. Vantage, New York, 1958. 158 pp. \$3.

*Interdisciplinary Team Research: Methods and Problems.* No. 3 of the Research Training Series. Margaret Barron Luszki. New York Univ. Press (for the National Training Laboratories), New York, 1958. 382 pp. \$6.

*Applied Mathematics for Engineers and Physicists.* Louis A. Pipes. McGraw-Hill, New York, ed. 2, 1958. 734 pp. \$8.75.

*Concepts of Classical Optics.* John Strong. Freeman, San Francisco, 1958. 708 pp. \$9.50.

*Energy for Man.* Windmills to nuclear power. Hans Thirring. Indiana Univ. Press, Bloomington, 1958. 409 pp. \$6.95.

*Unit Processes in Organic Synthesis.* P. H. Groggins. McGraw-Hill, New York, ed. 5, 1958. 1080 pp. \$17.50.

*Cahiers de Synthèse Organique.* vol. IV. Léon Velluz, Ed. Masson, Paris, 1958. 272 pp. Paper, F. 5000; cloth, F. 5500.

*Chemical Thermodynamics.* A course of study. Frederick T. Wall. Freeman, San Francisco, 1958. 429 pp. \$3.

*Carbon Dioxide Therapy.* A neurophysiological treatment of nervous disorders. L. J. Meduna, Ed. Thomas, Springfield, Ill., ed. 2, 1958. 553 pp.

*The Effects of Radiation on Materials.* J. J. Harwood, Henry H. Hausner, J. G. Morse, W. G. Rauch. Reinhold, New York; Chapman & Hall, London, 1958. 360 pp. \$10.50.

*Pregnancy, Birth and Abortion.* Paul H. Gebhard, Wardell B. Pomeroy, Clyde E. Martin, Cornelia V. Christenson. Harper, New York, 1958. 295 pp. \$6.

*Wave Propagation and Antennas.* George B. Welch. Van Nostrand, Princeton, N.J., 1958. 265 pp.

*Atmospheric Explorations.* Papers of the Benjamin Franklin Memorial Symposium of the American Academy of Arts and Sciences. Henry G. Houghton, Ed. Technology Press of Massachusetts Inst. of Technology and Wiley, New York; Chapman & Hall, London, 1958. 135 pp. \$6.50.

*Bone and Radiostrontium.* Arne Engström, Rolf Björnerstedt, Carl-Johan Clemedson, Arne Nelson. Wiley, New York; Almqvist & Wiksell, Stockholm, Sweden, 1957. 139 pp. \$8.75.

*Information Resources.* A challenge to American science and industry. Based upon the proceedings of a special meeting of the Council on Documentation Research, 3-4 Feb. 1958, Western Reserve University, Cleveland, Ohio. Jesse H. Shera, Allen Kent, James W. Perry. Western Reserve Univ. Press, Cleveland; Interscience, New York, 1958. 226 pp. \$5.

*Scientists' Choice.* A portfolio of 12 photographs in science; selected and described by leading scientists. *Using Your Camera in Science*, Jerry A. Schur, 32 pp. Franklyn M. Branley, Ed. Basic Books, New York 3, 1958. \$4.95.

*Elementary Particle Accelerators.* Suppl. No. 4, *Soviet Journal of Atomic Energy*, 1957. 66 pp. \$15. *Nuclear Reactions in Light Nuclei.* Suppl. No. 5. 73 pp. \$15. English translation. Consultants Bureau, New York, 1958.

## Miscellaneous Publications

(Inquiries concerning these publications should be addressed, not to Science, but to the publisher or agency sponsoring the publication.)

*History of the Primates.* An introduction to the study of fossil man. Wilfrid Le Gros Clark. British Museum (Natural History), London, ed. 6, 1958. 119 pp. 4s.

*Education in Mathematics for the Slow Learner.* Mary Potter and Virgil Mallory. 36 pp. \$0.75. *How to Use Your Library in Mathematics.* Allene Archer. 6 pp. \$0.40. *Mathematics Clubs in High Schools.* Walter H. Carnahan, Ed. 32 pp. \$0.75. National Council of Teachers of Mathematics, Washington 6, 1958.

*The Paramagnetic Resonance and Optical Spectra of Some Ions in Cubic Crystalline Fields.* Annals, vol. 72, article 2. W. Low, 58 pp. *Recent Studies on the Epidemiology of Histoplasmosis.* vol. 72, article 3. Michael L. Furcolow. 38 pp. *Man in Space: a Tool and Program for the Study of Social Change.* A symposium. vol. 72, article 4. 50 pp. New York Acad. of Sciences, New York, 1958.

*Mosquitoes and Their Relation to Disease.* Economic Ser. No. 4. British Museum (Natural History), London, ed. 6, 1958. 15 pp. 1s.

*Institut National pour l'Étude Agonomique du Congo Belge, Rapport Annuel pour l'Exercice 1956.* The Institute, Brussels, Belgium, 1957. 558 pp. F. 160.

*Serological Reactions of Rheumatoid Arthritis.* Summary of first conference, 23 Jan. 1957. Medical and Scientific Committee. Arthritis and Rheumatism Foundation, New York, 1958. 99 pp. \$1.

*Directory of Independent Commercial Laboratories Performing Research and Development, 1957.* NSF 57-40. National Science Foundation, Washington, 1958 (order from Supt. of Documents, GPO, Washington 25). 59 pp. \$0.40.

*Pycnaspis Splendens, New Genus, New Species, a New Ostracoderm from the Upper Ordovician of North America.* Proceedings of the U.S. National Museum, vol. 108, No. 3391. Tor Ørvig. 24 pp. *Branchinecta Cornigera, a New Species of Anostracan Phyllopod from the State of Washington.* vol. 108, No. 3392. James E. Lynch. 12 pp. Smithsonian Institution, Washington 25, 1958.

*Population Council, Annual Report.* Reports of the executive officers for the year ended 31 Dec. 1957. The Council, New York, 1958. 24 pp.

*Facts about Pharmacy and Pharmaceuticals.* Health News Inst., 60 E. 42 St., New York, 1958. 137 pp. \$1.25.

*A Contribution to the Taxonomy of Stenoponia J. & R. (1911), a Genus of Palaearctic and Nearctic Fleas.* Bulletin, Entomology, vol. 6, No. 7, Karl Jordan. 36 pp. 10s. *The Mealy-Bugs (Pseudococcidae: Homoptera); Described by W. M. Maskell, R. Newstead, T. D. A. Cockerell and E. E. Green, from the Ethiopian Region.* Bulletin, Entomology, vol. 6, No. 8. D. J. Williams. 34 pp. 10s. *Miss L. E. Cheesman's Expedition to New Hebrides, 1955. Orders Odonata, Neuroptera and Trichoptera.* Bulletin, Entomology, vol. 6, No. 9. D. E. Kimmins. 14 pp. 5s. British Museum (Natural History), London, 1958.