

nebulous questions of invention and discovery. It must be admitted that he could hardly have produced so brief a book on this subject had he done otherwise, but the reader would be wise to check elsewhere for the details of any particular technology.

The book is illustrated (although not particularly well) and indexed, and it has a good bibliography. It differs from the edition of 1950 only in the addition of ten pages at the end.

ROBERT P. MÜLTHAUF

Department of Science and Technology,
Smithsonian Institution

New Books

Advances in Agronomy, vol. 10. Prepared under the auspices of the American Society of Agronomy. A. G. Norman, Ed. Academic Press, New York, 1958. 559 pp. \$12.50. Contents: "Agronomic trends and problems in the Great Plains"; "Changing concepts of plant nutrient behavior and fertilizer use"; "Race 15B of wheat stem rust—what it is and what it means"; "Australian soils and their responses to fertilizers"; "Castorbeans: a new oil crop for mechanized production"; "Safflower"; "Reactions of ammonia in soils"; "New grasses and legumes for soil and water conservation"; "Role of sulfur in soil fertility"; "Corn plant population in relation to soil productivity"; "Liming."

Advances in Carbohydrate Chemistry, vol. 13. Melville L. Wolfrom, Ed. Academic Press, New York, 1958. 398 pp. \$11. Contents: "Formation and cleavage of the oxygen ring in sugars"; "Lobry De Bruyn-Alberda Van Ekenstein Transformation"; "Formation reaction in carbohydrate research"; "Four-carbon saccharinic acids"; "Methyl ethers of 2-amino-2-deoxy sugars"; "Glycosyl ureides"; "Nonulosaminic acids"; "Polysaccharide hydrocolloids of commerce"; "Alkaline degradation of polysaccharides"; "Starch nitrate."

Advanced Mechanics of Fluids. D. W. Appel, P. G. Hubbard, L. Landweber, E. M. Laursen, J. S. McNown, H. Rouse, T. T. Siao, A. Toch, C. S. Yih. Hunter Rouse, Ed. Wiley, New York; Chapman & Hall, London, 1959. 458 pp. \$9.75.

Anatomy and Physiology Laboratory Manual. Catherine Parker Anthony. Mosby, St. Louis, Mo., ed. 5, 1959. 320 pp. \$3.50.

Biological Laboratory Data. L. J. Hale. Methuen, London; Wiley, New York, 1958. 142 pp. \$2.75.

Chemical Constitution. An introduction to the theory of the chemical bond. J. A. A. Ketelaar. Elsevier, Amsterdam, ed. 2, 1958 (order from Van Nostrand, Princeton, N.J.). 456 pp. \$8.95.

Cold Injury. Transactions of the Fifth Conference, 10–15 March 1957. Arctic Aeromedical Laboratory, Ladd Air Force Base, Alaska. M. Irene Ferrer, Ed. Josiah Macy, Jr. Foundation, New York, 1958. 341 pp. \$5.95.

Compact Heat Exchangers. A summary

of basic heat transfer and flow friction design data. W. M. Kays and A. L. London. McGraw-Hill, New York, 1958. 168 pp. \$6.

Convex Surfaces. Herbert Busemann. Interscience, New York, 1958. 205 pp. \$6.

Dynamics of Proliferating Tissues. Dorothy Price, Ed. Univ. of Chicago Press, Chicago, Ill., 1958. 111 pp. \$3.25.

Electromagnetic Phenomena in Cosmical Physics. International Astronomical Union Symposium No. 6. Held in Stockholm, August 1956. B. Lehnert, Ed. Cambridge Univ. Press, New York, 1958. 558 pp. \$10.

Elementary Practical Organic Chemistry, pt. I, "Small scale preparations"; pt. II, "Qualitative organic analysis"; pt. III, "Quantitative organic analysis." Arthur I. Vogel. Longmans, Green, New York, 1958. 918 pp. \$9.75.

Elements de mathematique, vol. II, Algebre. Chapitre 8, "Modules et anneaux semi-simples." 189 pp. F. 2000.

Embryonic Nutrition. Dorothea Rudnick, Ed. Univ. of Chicago Press, Chicago, Ill., 1958. 113 pp. \$3.25.

Engineering Fluid Mechanics. Charles Jaeger. Translated from the German by P. O. Wolf. St. Martin's Press, New York, 1957. 547 pp. \$11.50.

Expansion Machines for Low Temperature Processes. S. C. Collins and R. L. Cannaday. Oxford Univ. Press, New York, 1958. 116 pp. Paper, \$3.

The Essentials of Chemistry. R. P. Graham and L. H. Cragg. Rinehart, New York, 1959. 590 pp. \$6.50.

Extensive Air Showers. William Galbraith. Academic Press, New York; Butterworths, London, 1958. 227 pp. \$7.50.

Fine Particle Measurement. Size, surface, and pore volume. Clyde Orr, Jr., and J. M. Dalla Valle. Macmillan, New York, 1959. 353 pp. \$10.50.

The General Science of Nature. Vincent Edward Smith. Bruce, Milwaukee, Wis., 1958. 413 pp. \$7.

Génétique du vison. II. Andrée Téry and Martial Villemain. Vigot, Paris, 1959. 215 pp. F. 2600.

Grundriss der Allgemeinen Zoologie. Alfred Kuhn. Thieme, Stuttgart, Germany, 1959. 296 pp. \$4.25.

Hymenoptera of America North of Mexico. Synoptic catalog. Agriculture Monogr. No. 2, 1st Supplement. Karl V. Krombein et al. U.S. Department of Agriculture, Washington, 1958 (order from Supt. of Documents, GPO, Washington 25). 305 pp. \$1.75.

Interference between Power Systems and Telecommunications Lines. H. R. J. Klewe. Arnold, London, 1958 (order from St. Martin's Press, New York 17). 264 pp. \$12.50.

Introduction to Geophysics. Benjamin F. Howell, Jr. McGraw-Hill, New York, 1959. 410 pp. \$9.

Introduction to Neutron Physics. L. F. Curtiss. Van Nostrand, Princeton, N.J., 1959. 391 pp. \$9.75.

Investment in Innovation. C. F. Carter and B. R. Williams on behalf of the Science and Industry Committee. Oxford Univ. Press, New York, 1958. 178 pp. \$2.40.

Irreducible Tensorial Sets. U. Fano and G. Racah. Academic Press, New York, 1959. 178 pp. \$6.80.

Laboratory Instructions in Biochemistry. Israel S. Kleiner and Louis B. Dotti. Mosby, St. Louis, Mo., ed. 5, 1958. 289 pp. \$3.50.

Laminated Plastics. Including high-pressure and low-pressure types and reinforced plastics. D. J. Duffin. Reinhold, New York; Chapman & Hall, London, 1958. 263 pp. \$5.75.

Liquid Scintillation Counting. Proceedings of a conference held at Northwestern University, 20–22 August 1957. Carlos G. Bell, Jr., and F. Newton Hayes, Eds. Pergamon, New York and London, 1958. 303 pp. \$10.

Modern Foundry Practice. E. D. Howard, Ed. Contributions by 18 specialist authors. Philosophical Library, New York, ed. 3, 1959. 464 pp. \$15.

Die Muskeltätigkeit. Versuch einer biophysik des quergestreiften Muskels. Eugen Ernst. Ungarischen Akademie der Wissenschaften, Budapest, Hungary, 1958. 355 pp.

Nuclear Magnetic Resonance. Applications to organic chemistry. John D. Roberts. McGraw-Hill, New York, 1959. 126 pp. \$6.

Nuclear Reactions, vol. I. P. M. Endt and M. Demeur, Eds. North-Holland, Amsterdam; Interscience, New York, 1959. 514 pp. \$12.50.

Physics of Meteor Flight in the Atmosphere. Ernst J. Opik. Interscience, New York, 1958. 182 pp. Paper, \$1.95; cloth, \$3.85.

Polarography. In medicine, biochemistry, and pharmacy. M. Brezina and P. Zuman. Translated from the Czech by S. Wawzonek. Interscience, New York, revised English ed., 1958. 880 pp. \$19.50.

The Potential Theory of Unsteady Supersonic Flow. John W. Miles. Cambridge Univ. Press, New York, 1959. 232 pp. \$8.50.

Principles of Horticulture. Ervin L. Denisen. Macmillan, New York, 1958. 518 pp. \$6.95.

Psychopharmacology Frontiers. Proceedings of the Psychopharmacology Symposium, Second International Congress of Psychiatry. Nathan S. Kline, Ed. Little, Brown, Boston, 1958. 556 pp. \$10.

Selected Bibliographies of Hydrothermal and Magmatic Mineral Deposits. Memoir 75. John Drew Ridge. Geological Soc. of America, New York 27, 1958. 208 pp.

Soviet Economic Aid. The new aid and trade policy in underdeveloped countries. Joseph S. Berliner. Praeger, New York, 1958. 247 pp. \$4.25.

Statistical Theory of Irreversible Processes. R. Eisenschitz. Oxford Univ. Press, New York, 1958. 92 pp.

Surface Phenomena in Chemistry and Biology. J. F. Danielli, K. G. A. Pankhurst, A. C. Riddiford, Eds. Pergamon Press, New York and London, 1958. 330 pp. \$10.

Tables of Interatomic Distances and Configuration in Molecules and Ions. Special Publ. No. 11. L. E. Sutton, Ed. Chemical Soc., London, 1958.