

Books of the Week

For the editorial information of our readers, books received for review are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 36, D. C.

ADVANCED SERVOMECHANISM DESIGN—Ira Ritow—Doubleday, 224 p., illus., paper, \$1.95. Explains the techniques of the automatic control devices that are based on operational calculus.

ADVANCES IN ENZYMOLOGY and Related Subjects of Biochemistry, Vol XXV—F. F. Nord, Ed.—Interscience, 565 p., \$15. Contains major studies on photosynthesis, product inhibition of enzymes, and biological methylation.

ADVANCES IN PARASITOLOGY, Vol. 1—Ben Dawes, Ed.—Academic Press, 347 p., illus., \$11. Well-documented reviews of progress in the various fields of endeavor, such as experimental research on bird malaria, coccidiosis in domestic fowl, parasitic bronchitis, and experimental trichiniasis.

ADVANCES IN PHYSICAL ORGANIC CHEMISTRY, Vol. 1—V. Gold, Ed.—Academic Press, 443 p., illus., \$13. Contains contributions on entropies of activation, quantitative treatment of directive effects, planar and non-planar aromatic systems, and identification of organic free radicals.

BASIC FACTS OF STATISTICS—Francis J. Crowley and Martin Cohen; Jack Robbins, Ed.—Collier, 64 p., paper, 95¢. A student aid, presenting condensed facts of introductory course.

BASIC FACTS OF ZOOLOGY—Edward Ritter; Louis Levine and Jack Robbins, Eds.—Collier, 64 p., paper, 95¢. Digest covers entire introductory course in zoology, detachable review cards included.

BIOLOGICAL ORGANIZATION AT THE CELLULAR AND THE SUPRACELLULAR LEVEL—R. J. C. Harris, Ed., preface by C. Barigozzi—Academic Press, 261 p., illus., \$7.50. A Symposium held at Varenna, Italy, Sept. 1962, under the auspices of UNESCO.

BIOLOGY FOR THE MODERN WORLD—C. H. Waddington, foreword by Sir Sarvepalli Radhakrishnan—Barnes & Noble, 120 p., illus., \$2; paper, 95¢. Discusses the fundamental principles involved in the study of all living things.

CHEMICAL EQUILIBRIA AND REACTION RATES AT HIGH PRESSURES—M. G. Gonikberg, transl. from Russian—Israel Program for Scientific Transl. (OTS), 2nd rev. ed., 212 p., paper, \$2.25. Includes results of studies on the effects of pressure on the rate and composition of products of complex chemical reactions.

CHEMISTRY FOR THE MODERN WORLD—George Porter, foreword by Sir Sarvepalli Radhakrishnan—Barnes & Noble, 116 p., illus., \$2; paper, 95¢. Discusses in logical order the essential concepts of basic and applied modern chemistry.

THE EARTH AND THE MOON—Jean Taille, transl. from French by Rhys Matthews—Walker & Co., 148 p., illus., \$3.50. Aims at presenting the

shape, rotation, movements and relationships of the two planets, with some equations and formulae included.

THE ECOLOGY OF FISHES—G. V. Nikolsky, transl. from Russian by L. Birkett—Academic Press, 352 p., illus., \$12. Examines interrelationships between fishes and their abiotic and biotic environment, fundamental links in the life cycles of fishes, and the significance of fishes to mankind.

ELEMENTS OF ENGINEERING REPORTS—Dale S. Davis—Chemical Pub. Co., 200 p., illus., \$8.50. Covers the essentials of the typical technical paper, including information on technical editing.

ENCYCLOPEDIA OF ROSES IN NATURAL COLOR—H. Edland—St. Martins, 175 p., 421 color photographs, \$4.95; after Christmas \$6. An illustrated, concise reference to 421 of the most important and most popular varieties of the rose family.

ESSENTIAL FRENCH GRAMMAR—Seymour Resnick—Dover, 159 p., paper, 75¢. For the adult student with limited learning time, includes 50-page list of French-English cognates.

ESSENTIAL ITALIAN GRAMMAR—Olga Ragusa and Editorial Staff of Dover Publications—Dover, 111 p., paper, 75¢. Selected grammar for adult use.

ESSENTIALS OF BIOLOGICAL CHEMISTRY—James L. Fairley and Gordon L. Kilgour—Reinhold, 287 p., diagrams, \$7.50. A text for introductory course in biochemistry at the undergraduate level.

FUNDAMENTAL EXPERIMENTS FOR COLLEGE CHEMISTRY: Twenty Selected Experiments for a One-Semester or Two-Quarter Course—Harper W. Frantz and Lloyd E. Malm—Freeman, 203 p., illus. by Roger Hayward, paper, \$3.25. Laboratory manual in the series of chemistry texts edited by Linus Pauling.

GEM HUNTER'S GUIDE: The complete handbook for the amateur collector of gem minerals—Russell P. MacFall—Crowell, rev. ed., 278 p., illus., 8 color plates, 89 maps, \$4.95. Shows how and where to hunt for and identify gems in the United States, Canada and Mexico, characteristics of important gem stone materials, and how to judge quality and value.

GREAT TEMPLES OF THE EAST: The Wonders of Cambodia, India, Siam and Nepal—Sacheverell Sitwell—Oblonsky, 284 p., \$4. Description and thoughts about the ruins of Angkor Wat, the Bayon, Pashupatinat, the Caves of Ajanta and other rare sights.

INSIDE THE NUCLEUS—Irving Adler, introd. by Philip Morrison—Day, 191 p., illus. by Ruth Adler, \$4.95. Explores in layman's language the atom's core, the families of particles, nuclear force and nuclear structure.

LAND AND WATER USE—Wynne Thorne, Ed.—Am. Assn. for the Advancement of Science, 364 p., illus., \$8. Symposium presented at Denver meeting, 1961, primarily concerned with the concept of land and water as related resources.

LONGEVITY—Jacques Guillerme, transl. by Mark Holloway—Walker & Co., 143 p., \$3.50. Discusses historical evidence, theories and points of view, the demographic, biological, psychological and social aspects of longevity.

THE MACHINERY OF THE BRAIN—Dean E. Wooldridge—McGraw, 252 p., illus., \$5.95; paper, \$2.95. Written to acquaint physical scientists and engineers with the past discoveries and present hypotheses of the brain-research scientists.

MATHEMATICS: First S-T-E-P-S—Lillian R. Lieber—Watts, F., 81 p., illus. by Hugh Gray Lieber, \$2.95. A lively and original introduction to elementary mathematics for young people.

MEN OF OTHER PLANETS—Kenneth Heuer, foreword by Charles H. Smiley—Collier, rev. ed., 160 p., illus., paper, 95¢. About Lunarians, Martians and Saturnians, blends thorough astronomical knowledge with imaginative speculation.

MEXICO BEFORE CORTÉZ: Art. History, Legend—Ignacio Bernal, transl. from Spanish by Willis Barnstone—Doubleday, 135 p., illus., 16 plates, paper, 95¢. Original outline of the history that made the Valley of Tenochtitlan (today Mexico City) what it was.

MICROBES AND MEN—Harold J. Simon—NSTA (McGraw), 159 p., illus., \$2.75. Written for high school students, presents subject matter, research in the field, and suggestions for student activities.

MODERN PHYSICS: The Quantum Physics of Atoms, Solids and Nuclei—Robert L. Sproull—Wiley, 2nd ed., 630 p., illus., \$9.75. This textbook presents an analytical study of the quantum physics of atoms, molecules, solids and nuclei, addressed to engineers.

NORTH ATLANTIC POLICY: The Agricultural

Gap—John O. Coppock—Twentieth Century Fund, 270 p., \$4; paper, \$2.25. Major analytical study showing how protectionist policies for agriculture adopted by governments in the North Atlantic region, jeopardize progress toward an integrated Atlantic Community.

NUCLEAR RADIATIONS—Marc Lefort, transl. from French by J. A. Spiers—Walker & Co., 145 p., diagrams, \$3.50. Concise treatment of radiation, the origin, emission and energy of nuclear radiation, detection and measurement, and the effects of nuclear radiations.

NURSING CARE OF THE LONG-TERM PATIENT—Jeanne E. Blumberg and Eleanor E. Drummond—Springer Pub., 134 p., \$2.75. Presents existing knowledge that is basic to the art of nursing long-term patients.

ON THE INTERACTION BETWEEN ATOMIC NUCLEI AND ELECTRONS—H. B. G. Casimir, foreword by I. I. Rabi—Freeman, 2nd ed., 90 p., paper, \$2. Essay treats those phenomena in which interaction can be described by means of ordinary quantum mechanics, yet depend on nuclear properties other than charge and mass.

THE ORIGINS OF LIFE—Jules Carles, transl. from French by Francis Huxley—Walker & Co., 131 p., \$3.50. First published in France in 1950, presents the known facts of biogenesis in layman's language.

THE PHYSICS OF EXPERIMENTAL METHOD—H. J. Braddick, foreword by P. M. S. Blackett—Reinhold, 2nd ed., 480 p., diagrams, \$12. Textbook for the advanced student, emphasizes fundamental principles of measurement, statistical analysis of errors, and dependence of physical measurement on the properties of materials and their proper uses.

A POPULAR GUIDE TO GOVERNMENT PUBLICATIONS—W. Philip Leidy—Columbia Univ. Press, 2nd ed., 291 p., \$7.50. Up-to-date, classified and annotated index to those publications issued by the federal government that are of general interest and usefulness, from "Adolescent welfare" to "World War II."

PRINCIPLES OF CHEMISTRY—R. T. Sanderson—Wiley, 626 p., illus., \$7.95. Author treats chemistry as the science of atoms, emphasizing throughout the cause-and-effect relationship between the nature of the atoms and the physical and chemical properties of matter.

THE PSYCHOLOGY OF ANIMALS—Jean-Claude Filloux; transl. from French by James J. Walling—Walker & Co., 148 p., diagrams, \$3.50. Presents facts intended to give the reader an understanding of results obtained in field studies, beginning with the lowest animals and working up to those nearest to man.

THE SEA OTTER—I. I. Barabash-Nikiforov, transl. from Russian by A. Birron and Z. S. Cole—Israel Program for Scientific Transl. (OTS), 227 p., illus., paper, \$2.25. Published for the National Science Foundation and the U.S. Department of the Interior, deals with the biology and economic problems of breeding, acclimatization, feeding and care of the sea otter.

A SERVOMECHANISM PRIMER—Ira Ritow—Doubleday, 184 p., diagrams, paper, \$1.95. Introduction to the theory and design of the servomechanism devices that are the heart of any automatic control system.

SET THEORY AND LOGIC—Robert R. Stoll—Freeman, 474 p., \$9. An introduction to the foundations of mathematics; development and study of the real number system is the underlying theme.

SUPPLEMENT A to the 1962 GUIDE TO MICROREPRODUCTION EQUIPMENT—Hubbard W. Ballou, Ed.—National Microfilm Assn., 87 p., illus., paper, \$4 m.f. publisher, P.O. Box 386, Annapolis, Md. Contains new specifications and illustrations for 45 pieces of equipment.

TRUCKING OF RADIOACTIVE MATERIALS: Safety vs. Economy in Highway Transport—Ferdinand F. Leimkuhler—Johns Hopkins Press for AEC, 156 p., diagrams, \$7.50. Study on the effectiveness of safeguards in reducing accident liabilities relative to their cost.

UNDERSTANDING ELECTRONIC COMPONENTS—Earl J. Waters—Sams, 160 p., illus., paper, \$2.95. Theory, construction and application of electronic components, written in nontechnical language.

THE WINE IS BITTER: The United States and Latin America—Milton S. Eisenhower—Doubleday, 342 p., \$4.95. Survey and analysis of the history of hemispheric relations based on eight years of travel and intensive study in 17 of the 20 Latin American countries.

THE WORLD OF MEDICINE—Frank Ross Jr.—Lothrop, 192 p., illus., \$3. Describes the various branches of medicine, the qualifications of doctors and specialists, requirements and preparation for a career in medicine.

• Science News Letter, 84:60 July 27, 1963

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GUIDE TO SOUTHERN TREES by E. S. Harrar & J. G. Harrar

Dean of School of Forestry, Duke, and President of Rockefeller Foundation cover more than 350 trees from Mason-Dixon line to Mexico, Florida keys to Western Texas; everything except palms and yuccas. Astonishing amount of information in very palatable form: growth, habit, range, leaf, flower, twigs, bark, fruit, woodlore, commercial importance, and everything else necessary. Introduction explains principles of classification; finding keys throughout the book. 920 clear illustrations. 1962 edition. 718pp. 4 1/2 x 6 1/2. 945. Paperbound. **\$2.25**

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Prepared by foremost dendrologist, Prof. of Wood Technology, State U. of N. Y., this is handiest, easiest way to broaden knowledge of trees. Covers over 140 most important trees, thoroughly yet easily; full descriptions, woodlore, wildlife information, etc. Do not confuse this with shoddy "popular" books; this book is used in scores of college courses, yet is perfect for layman; the best pocket-sized tree book around, invaluable for scout, naturalist, nature lover, etc. More than 600 photographs, full text. 301pp. 4 1/2 x 6 1/2. 395. Paperbound. **\$1.35**

MANUAL OF THE TREES OF NORTH AMERICA, C. S. Sargent

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OUR SMALL NATIVE ANIMALS, THEIR HABITS & CARE, R. Snedigar

Curator of Reptiles, Chicago Zoo, gives full information about 114 small native animals possible as pets: squirrels, chipmunks, raccoons, foxes, skunks, snakes, amphibians, lizards, turtles, many others. Distribution, habitat, personality, food, habits, capturing, caring for, cages, diet, training, diseases—whatever else needed. Neither sentimental nor callous, but practical, based on years of experience. Will solve pet problem for parents, both by adding pleasure and preventing pain. 100 photos. Enlarged 1963 edition. 314pp. 5 1/2 x 8. 1022. Paperbound. **\$1.75**

NATURE RECREATION: GROUP GUIDANCE FOR THE OUT-OF-DOORS, W. G. Vinal

Professor of Nature Education at Mass. State College presents richest, most inspiring book in the field. Stimuli, suggestions, information for nature projects, observation, ranging widely from camping, wild life, Indian lore, weather and landscape interpretation, Colonial arts, and many other areas. We recommend this inexhaustible book to everyone in the position of nature leader anywhere: scouts, counsellors, park guides, teachers, and especially parents with children interested in nature. 1963 revision. 74 photos. 310pp. 5 1/2 x 8 1/2. 1015. Paperbound. **\$1.75**

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