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Books of the Week

For the editorial information of our readers, books received for review since last week's issue 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 6, D. C. Request free publications direct from publisher, not from Science Service.

ALL ABOUT STRANGE BEASTS OF THE PRESENT—Robert S. Lemmon—*Random House*, 148 p., illus. with drawings by Rudolf Freund, \$1.95. Telling children about strange-looking creatures with amazing ways.

ALL ABOUT THE ARCTIC AND ANTARCTIC—Armstrong Sperry—*Random House*, 146 p., illus. with drawings by the author, \$1.95. A book about the most distant places of the world for children of all ages.

BIOLOGICAL APPLICATIONS OF INFRARED SPECTROSCOPY—Robert P. Bauman, Consulting Ed.—*New York Academy of Sciences, Annals*, Volume 69, Art. 1, 253 p., illus., paper, \$3.50. There has been a dramatic growth of infrared spectroscopy over the last decade. The editor predicts that within a year or so the infrared spectra of solids may be useful in probing the mysteries of crystal lattices.

THE BOOK OF SHRUBS—William Carey Grimm—*Stackpole*, 522 p., illus. with drawings by the author, \$5.00, boxed with *The Book of Trees*, \$9.50. Describing and illustrating almost 150 shrubs, native and naturalized, of the Northern United States.

THE BOOK OF TREES—William Carey Grimm—*Stackpole*, 363 p., illus. with drawings by the author, \$5.00, boxed with the *Book of Shrubs*, \$9.50. A popular manual on the trees of the Northern United States.

BUILDING BLOCKS OF THE UNIVERSE—Isaac Asimov—*Abelard-Schuman*, 256 p., illus., \$3.00. Interestingly written book for young people about the chemical elements.

CELL PHYSIOLOGY—Arthur C. Giese—*Saunders*, 534 p., illus., \$10.00. Controversies on less important points are minimized so that the major achievements in cellular physiology are not obscured.

CHEMICAL ANTHROPOLOGY: A New Approach to Growth in Children—Icic G. Macy and Harriet J. Kelly—*University of Chicago Press*, 149 p., diagrams, \$3.75. Report of a study of average healthy children over a period of years.

CITIES IN THE SAND: Leptis Magna and Sabratha in Roman Africa—Kenneth D. Matthews, Jr.—*University of Pennsylvania Press*, 160 p., illus. with photographs by Alfred W. Cook, \$10.00. A pictorial introduction to two towns that 2,000 years ago were thriving agricultural and commercial centers of great importance to Rome.

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COLLEGE CHEMISTRY—William H. Nebergall and Frederic C. Schmidt—*Heath*, 788 p., illus., \$6.75. Designed to help instructors to integrate courses on general chemistry and qualitative analysis.

COMMISSION ON INCREASED INDUSTRIAL USE OF AGRICULTURAL PRODUCTS REPORT TO THE CONGRESS—J. Leroy Welsh, Chairman—*Senate Committee on Agriculture and Forestry*, 135 p., paper, free upon request direct to publisher, Capitol, Washington 25, D. C. Reporting the search for new uses for familiar farm products as well as for potential uses for the thousands of wild plants about which nothing is yet known.

DETERMINATION OF SR⁹⁰ AND BA¹⁴⁰ IN BONE, DAIRY PRODUCTS, VEGETATION, AND SOIL—H. L. Volchok, J. L. Kulp, W. R. Eckelmann and J. E. Gaetjen—*New York Academy of Sciences, Annals*, Volume 71, Art. 2, 9 p., paper, 75 cents. Discussing a technique for determining the fission product contamination in many natural materials.

ECONOMIC BACKWARDNESS AND ECONOMIC GROWTH: Studies in the Theory of Economic Development—Harvey Leibenstein—*Wiley*, 295 p., graphs, \$6.75. The author's aim is explanation, not prescription.

THE EDGE OF APRIL: A Biography of John Burroughs—Hildegard Hoyt Swift—*Morrow*, 316 p., illus. with drawings by Lynd Ward \$3.95. A factual biography of the great naturalist.

ELEMENTARY PRACTICAL ORGANIC CHEMISTRY: Part II, Qualitative Organic Analysis—Arthur I. Vogel—*Longmans, Green*, 320 p., illus., \$4.50. Intended to place at the disposal of students of all grades the long experience of the author.

ENGINEERING MECHANICS—Archie Higdon and William B. Stiles in collaboration with Arthur W. Davis and Herbert O. Ustrud—*Prentice-Hall*, 2d ed., 585 p., illus., \$7.25. Since much of engineering is "applied mechanics," it is important for engineering students to grasp mechanics. Intended for use in two successive terms.

EXPLORING THE WEATHER—Roy A. Gallant—*Garden City Books*, 64 p., illus. with drawings by Lowell Hess, \$2.50. Telling how the weather man arrives at his prediction.

EXPLORING UNDER THE SEA—Sam Hinton—*Garden City Books*, 64 p., illus. with drawings by Rudolf Freund, \$2.50. Telling about the interesting and beautiful creatures that live in the depths of the sea.

FLOWING GOLD: The Romance of Oil—John J. Floherty—*Lippincott*, rev. ed., 224 p., illus., \$3.75. One of a series of books on careers for boys and girls.

THE GALACTIC NOVAE—Cecilia Payne-Gaposchkin—*Interscience*, 336 p., illus., \$8.50. Summarizing the known data about these heavenly explosions to serve as a starting point for an interpretation of the nova process.

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HANDBOOK OF CHEMICAL DATA—F. W. Atack and Dan R. Atack, Eds.—*Reinhold*, 629 p., \$6.75. A convenient reference work for chemists.

HISTOLOGY—H. G. Q. Rowett—*Rinehart*, 47 p., illus., paper, 95 cents. A set of notes and diagrams intended as a guide to students in their laboratory work.

A HISTORY OF INDUSTRIAL CHEMISTRY—F. Sherwood Taylor—*Abelard-Schuman*, 467 p., illus., \$7.50. Chemical industry began in the New Stone Age with the use of fire, alcoholic fermentation and the baking of pottery.

MARYSVALE, UTAH, URANIUM AREA: Geology, Volcanic Relations, and Hydrothermal Alteration—Paul F. Kerr and others—*Geological Society of America*, Special Paper 64, 212 p., illus., \$6.00. The Marysville area is noteworthy as one of igneous activity, hydrothermal alteration and uranium mineralization.

MODERN IDEAS ON SPONTANEOUS GENERATION—Ross F. Nigrelli, Consulting Ed.—*New York Academy of Sciences*, Annals, Volume 69, Art. 2, 112 p., illus., paper, \$2.50. Telling how life can spring from the non-living.

NATIONAL CANCER INSTITUTE TWENTIETH ANNIVERSARY—Michael B. Shimkin, Scientific Ed.—*National Cancer Institute*, Special issue of the Journal of the National Cancer Institute, 217 p., illus., paper, \$2.00. Telling of the staff and activities of the Institute.

PRAYING MANTIS—Harriet E. Huntington—*Doubleday*, 39 p., illus. with photographs by the author, \$2.00. Telling children about the life of this curious and unusual insect and how to keep one as a pet.

PROTEOLYTIC ENZYMES AND THEIR CLINICAL APPLICATION—Gustav J. Martin, Consulting Ed.—*New York Academy of Sciences*, Annals, Volume 68, Art. 1, 244 p., illus., paper, \$3.50. The most important of the proteolytic enzymes of animal origin are pepsin, trypsin and various of the intestinal juices.

REPORTS ON THE PRODUCTIVE USES OF NUCLEAR ENERGY: Summary of Findings—Policy Suggestions for the Future—NPA Special Policy Committee—*National Planning Association*, 59 p., paper, \$1.50.

ROCKET POWER AND SPACE FLIGHT—G. Harry Stine—*Holt*, 182 p., illus., \$3.75. An expert on rockets attempts here to answer common questions of boys about rockets and space flight.

THE ROLE OF I¹³¹-LABELED PROTEINS IN BIOLOGY AND MEDICINE—S. P. Masouredis, Consulting Ed.—*New York Academy of Sciences*, Annals, Volume 70, Art. 1, 152 p., illus., paper, \$3.00. Discussing the use of radioactive iodine to tag proteins in medical research.

STRENGTHENING SCIENCE EDUCATION FOR YOUTH AND INDUSTRY: Proceedings of the Seventh Thomas Alva Edison Foundation Institute, Nov. 19-20, 1956—*New York University Press*, 162 p., paper, \$4.00. Contributors from various fields presented these papers aimed at remedying the shortage of scientific manpower.

THE STUDENT-PHYSICIAN: Introductory Studies in the Sociology of Medical Education—Robert K. Merton, George G. Reader and Patricia L. Kendall, Eds.—*Harvard University Press*, 360 p., graphs, \$5.00. A medical education, it is revealed, is more than consuming an enormous amount of medical knowledge, it is also training in how to deal with uncertainties.

Science News Letter, October 12, 1957

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