

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.

ANATOMY OF THE HONEY BEE—R. E. Snodgrass—*Cornell University Press (Comstock)*, 334 p., illus., \$6.00.—The honey bee supports a large commercial industry, the author points out, and probably for this reason the anatomy of the bee has long been a subject of great interest. (See p. 25.)

ASYMPTOTIC EXPANSIONS—A Erdélyi—*Dover*, 108 p., paper, \$1.35. An unabridged republication of a monograph prepared for the Office of Naval Research.

THE CHEMISTRY AND MODE OF ACTION OF PLANT GROWTH SUBSTANCES—R. L. Wain and F. Wightman, Eds.—*Academic*, 312 p., illus., \$9.50. Proceedings of a symposium held at the University of London in 1955.

CHROMOSOME BOTANY—C. D. Darlington—*Allen & Unwin (Macmillan)*, 186 p., illus., \$2.75. An introduction to a wide range of biological problems.

DETERMINATION OF ORGANIC COMPOUNDS—K. G. Stone—*McGraw-Hill*, 233 p., illus., \$5.00. An introduction to the field of organic analysis from the standpoint of functional groups.

AN ESSAY ON THE FOUNDATIONS OF GEOMETRY—Bertrand A. W. Russell, new introduction by Morris Kline—*Dover*, 201 p., paper \$1.50, cloth \$3.25. A student edition of a science classic.

EXPERIMENT AND THEORY IN PHYSICS—Max Born—*Dover*, 44 p., paper, 60 cents. An expanded version of a famous address given by this Nobelist, offering analyses of theoretical and mathematical advances.

THE FIRST BOOK OF TRAINS—Russel Hamilton—*Franklin Watts*, 69 p., illus., \$1.95. In this day of jet airplanes and rockets, the choo-choo train is still very important to children and to many of their fathers.

HAMMOND'S MAP LIBRARY—C. S. Hammond & Co., 9 maps nearly 12 square feet in area in a book-like map box, \$9.95. Useful for wall or library shelf in home, school or office.

HANDBOOK ON THE INTERNATIONAL EXCHANGE OF PUBLICATIONS—Gisela von Busse and H. Werhahn, Eds.—*UNESCO*, 2d ed., 507 p., paper, \$7.00. Includes lists of addresses of institutions in more than 87 countries.

THE HISTORICAL BACKGROUND OF CHEMISTRY—Henry M. Leicester—*Wiley*, 260 p., illus., \$6.00. Tracing the development of chemistry through the thoughts and ideas of chemists.

HORMONES AND THE AGING PROCESS—Earl T.

Engle and Gregory Pincus, Eds.—*Academic*, 323 p., illus., \$8.50. The notion that senescence in males could be corrected by testis grafts, the editors point out, took a long time to die. The papers show the emphasis in recent research.

INFINITE SEQUENCES AND SERIES—Konrad Knopp, translated by Frederick Bagemihl—*Dover*, 186 p., paper \$1.75, cloth \$3.50. Developing the theory of infinite sequences and series from its beginnings. This is the first publication of a new work by this mathematician.

INTEGRAL FUNCTIONS—M. L. Cartwright—*Cambridge University Press*, Cambridge Tracts in Mathematics and Mathematical Physics No. 44, 135 p., paper, \$3.50. Intended to make certain parts of the theory of integral functions more easily available, especially those concerning the behavior of a function of finite order in an angle.

ION EXCHANGE TECHNOLOGY—F. C. Nachod and Jack Schubert, Eds.—*Academic*, 660 p., illus., \$15.00. Both textbook and reference work for technologists and engineers. Describing new ways for treatment of water, electrochemical operations, recovery of important materials from waste and treatment of radioactive wastes.

A KEY TO THE HEAVENS—Leo Mattersdorf—*Fawcett*, 159 p., illus., paper, 35 cents. Originally published by Lantern Press under the title, "Insight Into Astronomy."

A LABORATORY STUDY OF CHEMICAL PRINCIPLES: A Semimacro Manual Integrating General Chemistry and Qualitative Analysis—Harper W. Frantz—*Freeman*, 2d ed., 266 p., illus., paper, \$2.75. The author believes that general chemistry should be taught as a laboratory-centered course.

MINERALS FOR ATOMIC ENERGY: A Guide to Exploration for Uranium, Thorium and Beryllium—Robert D. Nininger—*Van Nostrand*, 2d ed., 399 p., illus., \$8.00. The present demand for uranium, the author indicates, is almost entirely for defense. The long-term market will, however, presumably depend more and more upon use of nuclear fuel for industrial power. Here is information for the would-be prospector.

THE NEGRO POTENTIAL—Eli Ginzberg, assisted by James K. Anderson, Douglas W. Bray and Robert W. Smuts—*Columbia University Press*, 144 p., \$3.00. The single most underdeveloped human resource in the United States is the Negro, this study indicates. We cannot afford, the author says, to waste this important resource.

THE NORMAL CHILD AND SOME OF HIS ABNORMALITIES—C. W. Valentine—*Penguin*, 291 p., paper, 85 cents. Reassuring parents who notice what they regard as strange behavior in their child.

PHYSICS AND MATHEMATICS—R. A. Charpie, J. Horowitz, D. J. Hughes and D. J. Littler, Eds.—*McGraw-Hill*, Progress in Nuclear Energy, Series I, 398 p., illus., \$12.00. Contains forewords by Sir John Cockcroft and V. F. Weisskopf. A summary of results and methods of value to workers in reactor design.

POLIO AND THE SALK VACCINE: What You Should Know About It—Alton L. Blakeslee, foreword by Basil O'Connor—*Grosset & Dunlap*, 78 p., illus., paper, \$1.00. Telling where we stand in the fight against polio and showing that it is now unmistakably a winning fight.

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON THE PEACEFUL USES OF ATOMIC ENERGY: Volume 6, Geology of Uranium and Thorium—*United Nations*, (Columbia University Press), 825 p., illus., \$9.00. Virtually every country represented at the Geneva Conference presented a summary of its own resources and prospects. This volume presents the total worldwide picture.

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON THE PEACEFUL USES OF ATOMIC ENERGY: Volume 10, Radioactive Isotopes and Nuclear Radiations in Medicine—*United Nations* (Columbia University Press), 544 p., illus., \$8.00. Covered are applications of radioactive isotopes to therapy, diagnosis and research.

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON THE PEACEFUL USES OF ATOMIC ENERGY: Volume 12, Radioactive Isotopes and Ionizing Radiations in Agriculture, Physiology and Biochemistry—*United Nations* (Columbia University Press), 553 p., illus., \$9.00. Covering applications of radioisotopes in the life sciences.

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON THE PEACEFUL USES OF ATOMIC ENERGY: Volume 13, Legal, Administrative, Health and Safety Aspects of Large-Scale Use of Nuclear Energy—*United Nations* (Columbia University Press), 393 p., illus., \$7.00. Covering difficult problems of insurance, public health, government and private industry relationships, and stressing health physics.

RESISTANCE WELDING: Theory and Use—Resistance Welding Committee, American Welding Society—*Reinhold*, 163 p., illus., \$4.50. Prepared for those who must use the process.

SOLAR RADIATION, ABSORPTION RATES, AND PHOTOCHEMICAL PRIMARY PROCESSES IN URBAN AIR—Philip A. Leighton and William A. Perkins—*Air Pollution Foundation*, Report No. 14, 129 p., paper, \$5.00. Showing that nitrogen oxides and other substances as well as hydrocarbons must be reduced in order to eliminate smog.

STILL DIGGING—Sir Mortimer Wheeler—*Dutton*, 236 p., illus., \$4.00. Autobiography of a scientist who has spent a lifetime in search of the past and whose only regret concerns the total of twenty years out of that lifetime he had to spend in sleep.

SYMPOSIUM ON MEDICATED FEEDS—Henry Welch and Felix Marti-Ibanez, Eds.—*Medical Encyclopedia*, 214 p., \$4.00. American farmers face profound changes in feeding and medicating livestock and poultry, resulting from modern discoveries concerning nutrition and disease control.

THE TRUE BOOK OF MORE SCIENCE EXPERIMENT—Illa Podendorf—*Childrens Press*, 47 p., illus., \$2.00. Simple experiments for primary school children on light, work, inertia, ice, water and water vapor.

WIND TRAJECTORY STUDIES OF THE MOVEMENT OF POLLUTED AIR IN THE LOS ANGELES BASIN—Morris Neiburger, Nicholas A. Renzetti and Rita Tice—*Air Pollution Foundation*, Report No. 13, 74 p., illus., paper, \$4.00. Showing that motor vehicle exhaust gases are a major source of pollution on smoggy days.

YOU AND THE SCIENCES OF MANKIND—Ray Brockel—*Childrens Press*, 61 p., illus., \$2.00. Telling children what the sciences offer as a field of interest.

YOU AND THE SCIENCES OF PLANTS, ANIMALS AND THE EARTH—Ray Brockel—*Childrens Press*, 61 p., illus., \$2.00. To help children move toward the field of science most interesting to them. Tells what the various branches of science cover.

Science News Letter, July 14, 1956

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