

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.

ANGULAR MOMENTUM IN QUANTUM MECHANICS—A. R. Edmonds—*Princeton University Press*, 146 p., diagrams, \$3.75. A practical manual for the physicist.

ATOMIC ENERGY AND AGRICULTURE—C. L. Comar, Ed.—*American Association for the Advancement of Science*, Publication No. 49, 450 p., illus., \$9.50. Papers presented at a symposium at the Atlanta meeting of the AAAS in 1955.

A BIBLIOGRAPHY FOR THE INTERNATIONAL GEOPHYSICAL YEAR—Lee Anna Embrey and others—*Govt. Printing Office*, National Science Foundation, 51 p., paper, 25 cents. The articles listed are mostly of a non-technical nature. Panel, committee and staff members of the IGY are listed.

BY WHICH WE LIVE—Ernest Swift—*National Wildlife Federation*, 38 p., paper, single copies free upon request direct to publisher, 232 Carroll St., N. W., Washington 12, D. C. A collection of essays on conservation written by the executive director of the Federation.

CHILD PSYCHIATRY—Leo Kanner, prefaces by John C. Whitehorn, Adolf Meyer and Edwards A. Park—*Charles C. Thomas*, 3d ed., 777 p., illus., \$8.50. A new edition of a well-known text.

A CLASSIFIED BIBLIOGRAPHY OF GERONTOLOGY AND GERIATRICS: Supplement One, 1949-1955—Nathan W. Shock—*Stanford University Press*, 525 p., \$15.00. Interest in this field has so increased that almost as many articles have been published in the period covered by this supplement as were published in the entire period of almost half a century covered by the original bibliography.

CONSTRUCTING AN ASTRONOMICAL TELESCOPE—G. Mathewson—*Philosophical Library*, 2d ed., 100 p., illus., \$3.00. To help the amateur astronomer possess an instrument without a large capital outlay.

CONVERGENCE BEHAVIOR IN DISASTERS: A Problem in Social Control—Charles E. Fritz and J. H. Mathewson—*National Academy of Sciences-National Research Council*, Committee on Disaster Studies, Disaster Study Number 9, 102 p., illus., paper, \$2.00. (See p. 215.)

THE DETECTION AND MEASUREMENT OF INFRARED RADIATION—R. A. Smith, F. E. Jones and R. P. Chasmar—*Oxford University Press*, 458 p., illus., \$11.20. Presenting an account of modern practice in infra-red techniques for advanced students and research workers.

A DICTIONARY OF SCIENTIFIC TERMS: Pronunciation, Derivation, and Definition of Terms in Biology, Botany, Zoology, Anatomy, Cytology, Genetics, Embryology, Physiology—I. F. Henderson and W. D. Henderson—*Van Nostrand*, 6th ed. by J. H. Kenneth, 532 p., \$12.50. Defining some 14,000 terms from abactinal to zygote.

FABULOUS FIREBALL: The Story of Solar Energy—D. S. Halacy, Jr.—*Macmillan*, 154 p., illus., \$3.00. Solar radiation is the world's only inexhaustible source of energy, but before we reach the point where we can make use of this resource, many discoveries must be made. This book is intended to inspire those now children to turn to this study.

FADS AND FALLACIES IN THE NAME OF SCIENCE—Martin Gardner—*Dover*, 2d rev. ed., 363 p., paper, \$1.50. This book, formerly published under the title "In the Name of Science," de-

scribes hoaxes, fads and theories not generally accepted by scientists, such as flying saucers, Lysenkoism, Atlantis, Orgonomy, Dianetics, ESP and Bridey Murphy.

FIRST AID TEXTBOOK—American National Red Cross—*Doubleday*, 4th ed., 241 p., illus., paper, 75 cents, cloth \$1.00. A new edition of this famous book for first-aid classes. Tells what should be done in a variety of emergencies from drowning to tarantula bite. (See p. 212.)

FOR FUTURE DOCTORS—Alan Gregg—*University of Chicago Press*, 165 p., \$3.50. A Collection of lectures by the late vice-president of the Rockefeller Foundation, introducing medical students to their future profession.

THE GOLDEN PICTURE BOOK OF SCIENCE: Animals, Plants, Rocks, Gravity, Day and Night, Rain and Snow, the Sky and Ocean With 45 Experiments and Activities—Rose Wyler—*Simon and Schuster*, A Fun-to-Learn Golden Book, 57 p., illus., with drawings by Marjorie Hartwell and Valerie Swenson, \$1.35. The simple science experiments will delight the grade-school child.

HANDBOOK OF HOLLIES—Harry William Dengler, Guest Editor—*American Horticultural Society*, National Horticultural Magazine special issue, 193 p., illus., paper, \$3.00. Between 20 and 30 species of holly are native to North America. This handbook tells how to propagate and grow holly, and how to use it in landscaping and flower arrangements, especially for the Christmas season.

HISTORY OF THE PRIMATES: An Introduction to the Study of Fossil Man—W. E. LeGros Clark—*University of Chicago Press*, 186 p., illus., paper, \$1.25. An eminent British anthropologist traces the story of how man began.

THE ILLUSTRATED BOOK OF THE SEA—Leon A. Hausman and Felix Sutton—*Grosset & Dunlap*, 101 p., illus., with drawings in color by Art Renshaw and Herman Bischoff, \$3.95. A beautiful book for children.

AN INEXPENSIVE SCIENCE LIBRARY: A Selected List of Paperbound Science Books—Hilary J. Deason—*American Association for the Advancement of Science*, 16 p., paper, 10 cents. The books listed range in price from 35 cents to \$2.75; the majority sell for less than a dollar.

AN INTRODUCTION TO FLUID MECHANICS AND HEAT TRANSFER: With Applications in Chemical & Mechanical Process Engineering—J. M. Kay—*Cambridge University Press*, 309 p., diagrams, \$7.00. Primarily a text for chemical and mechanical engineers in the process industries and at the university, but useful to all concerned with the applications of fluid mechanics and heat transfer.

LIVING REPTILES OF THE WORLD—Karl P. Schmidt and Robert F. Inger—*Hanover House*, 287 p., illus., \$10.00. Profusely illustrated with photographs, many in full color, this book covers not only snakes but lizards, iguanas, chameleons, geckos and other reptiles.

MATHEMATICS FOR SCIENCE & ENGINEERING—Philip L. Alger—*McGraw-Hill*, 360 p., illus., text ed., \$5.50. To supplement the ordinary elementary mathematics course. Based on "Engineering Mathematics" by Charles Proteus Steinmetz.

MENTAL HEALTH IN COLLEGE AND UNIVERSITY—Dana L. Farnsworth—*Harvard University Press*, 244 p., \$5.00. One problem of mental health, the author says, is that of helping the

individual to free himself from disabling internal conflicts as well as to avoid external discord.

THE NATURE OF RADIOACTIVE FALLOUT AND ITS EFFECTS ON MAN—Carl T. Durham, Chairman, Joint Committee on Atomic Energy and Chet Holifield, Chairman, Special Subcommittee on Radiation—*Govt. Printing Office*, 2065 p., illus., paper, Part 1, \$3.75; Part 2, \$2.75. Reporting the public hearings on a serious topic.

OUR SUN AND THE WORLDS AROUND IT: Planets, Moons, Comets and Other Wonders of the Solar System—Jene Lyon—*Simon and Schuster*, A Fun-to-Learn Golden Book, 57 p., illus., with drawings by George Solonewitsch, \$1.35. Introducing youngsters to the fascinating world above our heads.

THE PORPHYRY COPPERS IN 1956—A. B. Parsons—*American Institute of Mining, Metallurgical, and Petroleum Engineers*, 270 p., illus., \$5.00. Supplementing the author's "The Porphyry Coppers," a history of the principal copper mining companies in the Americas.

PSYCHOPATHIC PERSONALITIES—Harold Palmer—*Philosophical Library*, 179 p., \$4.75. Telling how to recognize and deal with the hysterics, paranoiacs and psychopaths who disrupt and bring nations to the brink of war. By a British psychiatrist.

ROCKEFELLER FOUNDATION THE PRESIDENT'S REVIEW FROM THE ANNUAL REPORT 1956—Dean Rusk, President—*Rockefeller Foundation*, 85 p., illus., paper, free upon request direct to publisher, 49 West 49th Street, New York, N. Y. During 1956 the Rockefeller Foundation appropriated more than \$30,000,000, the largest total in any single year since its establishment in 1913.

SCIENCE AND THE SOCIAL STUDIES—Howard H. Cummings, Ed.—*National Council for the Social Studies*, Twenty-Seventh Yearbook, 271 p., illus., paper \$4.00, cloth \$5.00. Urging that the study of science be included in courses on history, government and social science.

SCIENCE IN AUSTRALIAN PRIMARY SCHOOLS—C. D. Hardie, Ed.—*Melbourne University Press (Cambridge University Press)*, 90 p., illus., \$3.75. Suggesting what should be covered in a science course for very young children, and what is needed in the way of materials and equipment.

THE SEMINOLES—Edwin C. McReynolds—*University of Oklahoma Press*, 394 p., illus., \$5.75. An account of a people who hold a unique place among American Indians.

THE SLOW LEARNER: Some Educational Principles and Policies—M. F. Cleugh—*Philosophical Library*, 186 p., diagrams, \$3.75. An attempt is made nowadays in England to separate the low-grade uneducable children from the slow learners and also from those whose failure in regular classes is due to emotional difficulty.

THE WONDERWORLD OF SCIENCE—Warren Knox, Morris Meister, George Stone and others—*Scribner's*, rev. ed., Book One, 116 p., \$2.00, Book Two, 152 p., \$2.24, Book Three, 184 p., \$2.32, Book Four, 219 p., \$2.44, Book Five, 251 p., \$2.56, Book Six, 279 p., \$2.60. Beautifully illustrated texts for the elementary schools.

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A new material which scratches diamond and remains hard at temperatures where a diamond burns up is cubic boron nitride, known as "borazon."

The basic research upon which hydrographic charts are prepared normally consists of hand soundings, fathometer soundings and wire dragging to locate submerged pinnacles or rocks.