

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 priced at 95¢ or over, 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.

ADVANCED ALGEBRA, Part I—E. A. Maxwell—*Cambridge Univ. Press*, 311 p., \$2.75. Emphasizes the logical structure of algebra and offers large number of routine examples.

BIOLOGICAL AND CHEMICAL CONTROL OF PLANT AND ANIMALS PESTS: Symposium, December 1957—L. P. Reitz, Ed.—*Am. Assn. for the Advancement of Science*, 273 p., illus., \$5. Scientist's report on what has been accomplished in insect and weed control through chemical and biological means, some of the consequences of it and some hints of what more may be done.

A BOOK OF TONGUES—Anne Welsh Guy—*Steck*, 48 p., illus. by Elizabeth Rice, \$1.75. Tells young children how various animals use their tongues, from cats and giraffes to hummingbirds and bees.

CEYLON: A World Background Book—Christine Weston—*Scribner*, 162 p., photographs, \$3.95. Introduction to contemporary life, work and customs of the Ceylonese who inhabit the tropical island only 22 miles from the southern tip of India.

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Peace Prize—Edith Patterson Meyer—*Little*, 216 p., illus. by Eric von Schmidt, \$3.50. Short biographical sketches, pointing out the different ways in which men have worked for peace.

COMMONSCIENCE IN EVERYDAY LIFE—O. A. Battista—*Bruce Pub.*, 115 p., illus., \$2.75. Popular discussion of how to apply generally known scientific facts to situations around the home, on the job, to improve our health, prevent accidents and overcome superstition.

COSMIC RADIO WAVES—I. S. Shklovsky, transl. from Russian by Richard B. Rodman and Carlos M. Varsavsky, foreword by Bart J. Bok—*Harvard Univ. Press*, 444 p., illus., \$12.50. Comprehensive treatment of the radio emission from objects located far beyond the solar system, by leading Russian theoretical astrophysicist.

DICTIONARY OF NUTRITION AND FOOD TECHNOLOGY—Arnold E. Bender—*Academic*, 143 p., \$5.80. Brief descriptions of 2,000 terms commonly met with in discussions on nutrition, food manufacture, biochemistry and bacteriology related to food.

EMOTION AND PERSONALITY, Vol. I: Psychological Aspects. Vol. II: Neurological and Physiological Aspects—Magda B. Arnold—*Columbia Univ. Press*, 296 p., 430 p., \$7.50 each. Psychologist's attempt to survey the area of emotion, demonstrating the theory that "a phenomenological analysis of emotional experience can guide us in identifying the brain structure and pathways that mediate feelings and emotions."

HIGH SPEED WING THEORY—Robert T. Jones and Doris Cohen—*Princeton Univ. Press*, 243 p., illus., paper, \$2.95. Fundamental considerations in the development of wings for high speeds, aerodynamics of thin wings at subsonic and at supersonic speeds.

HIGHER APPROXIMATIONS IN AERODYNAMIC THEORY—M. J. Lighthill—*Princeton Univ. Press*, 147 p., paper, \$1.95. Treats subsonic flow, supersonic two-dimensional airfoil theory, supersonic projectile theory and supersonic three-dimensional wing theory.

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AN INTRODUCTION TO THE ANAESTHESIA OF LABORATORY ANIMALS—Phyllis G. Croft—*Universities Federation for Animal Welfare*, 32 p., illus., 55¢ direct to publisher, 7a Lamb's Conduit Passage, London, W. C.1, England. Intended to assist those who are not yet familiar with the administration of anaesthetics to small laboratory animals.

NUCLEAR FLIGHT: The United States Air Force Program for Atomic Jets, Missiles and Rockets—Kenneth F. Gantz, Ed.—*Duell*, 216 p., illus., \$4. Official progress report on principles, prospects and development of nuclear propulsion for aircraft, missiles and space rockets. Discusses status of different projects, the human element and operational hazards.

OCEANOGRAPHY 1960 TO 1970: 4—Oceanographic Research for Defense Applications—*Nat. Acad. of Sciences-Nat. Research Council*, 16 p., paper, free upon request direct to publisher, 2101 Constitution Ave., N.W., Washington, D.C.

ON POPULATION: Three Essays—Thomas Malthus, Julian Huxley and Frederick Osborn, introd. by Frank W. Notestein—*New Am. Lib.*, 144 p., paper, 50¢. Three analyses of the crisis posed by the population explosion, first put forth in 1830, in 1955 and in 1960, respectively.

ORCHIDS OF PERU—Charles Schweinfurth—*Chicago Natural Hist. Mus.*, 252 p., illus. by author, paper, \$4.50. Includes descriptions of 56 genera, with many pen drawings by the author.

PHYSICS IS FUN: Games and Experiments Not Requiring Special Apparatus—Gerhard Niese, transl. from German by Donald Iowa Mitchell—*Astro-Computing Bks.*, 150 p., illus., \$2.95. Seventy-eight simple experiments for boys and girls, demonstrating basic laws of physics in the four branches: mechanics, heat, sound and light.

PLANT PHYSIOLOGY: A Treatise, Vol. IA: Cellular Organization and Respiration—F. C. Steward, Ed.—*Academic*, 331 p., illus., \$13. Authorities in the field analyze present knowledge about the plant cell and its inclusions; proteins, enzymes and the mechanism of enzyme action; and the oxidation of organic compounds by molecular oxygen.

PROGRESS IN CRYOGENICS, Vol. 2—K. Mendelssohn, Ed.—*Academic*, 280 p., illus., \$11.50. Summarizes methods and techniques of low-temperature technology, such as storage and handling of cryogenic liquids, low-temperature bubble chambers, the three-level solid state maser and methods of nuclear orientation.

PSYCHOLOGY AND RELIGION—Carl Gustav Jung—*Yale Univ. Press*, 131 p., paper, 95¢. Discusses the religious symbolism of unconscious processes and the possible continuity of religious forms that have appeared and reappeared through the centuries.

THE RADIO NOISE SPECTRUM—Donald H. Menzel, Ed.—*Harvard Univ. Press*, 183 p., illus., \$7.50. Deals with the important problem of radio noise—its sources, whether man-made or natural—over the known range of frequencies. Individual chapters cover meteor scatter, whistler-made propagation, solar whistlers, interstellar hydrogen and cosmic radio noise.

ROCKETS THROUGH SPACE—Lester del Rey—*Fawcett*, rev. ed., 192 p., illus., paper, 50¢. Reprint of Winston publication first printed in 1957. About man's preparations to explore the universe.

Science News Letter, July 23, 1960

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