

Books of the Week

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ADVANCES IN BIOMEDICAL COMPUTER APPLICATIONS—William Siler and Theodor Sterling, Eds.—N.Y. Acad. of Sciences, Annals, Vol. 128, Art. 3, 395 p., illus., paper, \$8. Papers on biomedical computing, the mechanism of brain wave generation, EKG analysis, pressure pulse transmission, analysis of biological images and computer models of biochemical systems.

ATLAS OF EVOLUTION—Sir Gavin de Beer—Nelson, 202 p., 500 photographs, color plates, 32 maps, diagrams, \$15. Printed in Holland (1964), this large-format atlas presents for the layman in pictures and concise text the scientific evidence that has been collected to show how evolution works.

BACTERIAL METABOLISM—Marjory Stephenson—M.I.T. Press, 398 p., diagrams, paper, \$2.95. Reprint of third edition (1949).

BEEES, BUGS AND BEETLES—Ronald Rood—Four Winds Press, 64 p., illus. by Denny McMains, \$2.50. Gives children a close-up informative look at the development and behavior of insects.

THE BULB BOOK—Paul Schauenberg—Warne, 292 p., photographs and drawings by author, 36 color plates, \$10. Written for the amateur gardener by a Swiss horticulturist.

CENTRAL AMERICA: Lands Seeking Unity—Charles Paul May—Nelson, 222 p., photographs, maps, \$3.25. Introduces young people to the character and aspirations of the countries along the Inter-American Highway.

CHEMISTRY: Tutor Text—Royal B. Leach and Galen W. Ewing—Doubleday, 400 p., \$5.95. Programmed instruction for self-study in the fundamentals of chemistry.

THE DANGEROUS COLD: Its Cures and Complications—Noah D. Fabricant, M.D. and Groff Conklin—Collier-Macmillan, 179 p., illus., paper, 95¢. Authoritatively deals with the common cold from cause to consequences, and debunks the claims made for many commercial remedies while discussing safe methods for prevention, control and treatment.

EARLY CHILDHOOD: Crucial Years for Learning—Margaret Rasmussen, Ed.—Assn. for Childhood Educ., 89 p., photographs, paper, \$1.25. Reprints from CHILDHOOD EDUCATION of selected articles by specialists from the field of early childhood education and related disciplines.

THE FEASIBILITY OF A GLOBAL OBSERVATION AND ANALYSIS EXPERIMENT: A Report of the Panel on International Meteorological Cooperation—Committee on Atmospheric Sciences, Thomas F. Malone, Chmn.—NAS-NRC, 172 p., maps, diagrams, paper, \$4. Scientific and technical considerations with recommendations.

FINDING OUT IN SCIENCE, 1 and 2—S. Haggis and J. B. Hall—Cambridge Univ. Press, 80 p., 96 p., photographs, diagrams, paper, \$1.50. \$1.75. Teacher's Handbook 1, \$1.25; 2, \$1.75. Two-year course aimed at developing in African pupils an understanding of the world in which they live by encouraging them to find out things by themselves through observation and experiment.

FUEL CELLS: An Introduction to Electrochemistry—H. Arthur Klein—Lippincott, 148 p., photographs, diagrams by author and J. B. Laubheimer, \$4.25. Describes for the layman the processes of transformation from chemical energy to electrical energy, and the implications of fuel cells and their future usefulness.

GENERAL BIOLOGY—Fred M. Speed—Meril, 465 p., line drawings by author, photographs, \$8.50. A compact text with emphasis on analytical investigation, cell and organism dynamics, evolution of organisms and interdependence, and relationships of living things.

GENERAL CLIMATOLOGY—Howard J. Critchfield—Prentice-Hall, 2nd ed., 420 p., illus., \$11.95. Updated text incorporates recent discoveries and revised theories in its treatment of cloud seeding, frost prevention, fog dispersal, climate and disease, and other aspects of climatology.

A GUIDE TO EVALUATING SELF-INSTRUCTIONAL PROGRAMS—Paul I. Jacobs, Milton H. Maier and Lawrence M. Stolorow—Holt, 84 p., paper, \$1.50. A concise introduction

to programmed instruction, selecting a program and doing your own evaluation study.

HOMOTOPY THEORY AND DUALITY—Peter Hilton—Gordon & Breach, 224 p., \$11; paper, \$5.95. Based on notes for a lecture course delivered at Cornell University in 1958-1959, with up-to-date bibliography.

HOW ANIMALS COMMUNICATE—Bil Gilbert—Pantheon Bks., 175 p., illus. by Chet Rensson, \$3.95. Brings together for the young adult reader what recent research has established about the communicative behavior of such animals as bees, birds, apes, dolphins and whales.

INTRODUCING THE INSECT—F. A. Urquhart—Warne, rev. ed., 258 p., drawings by E. B. S. Logier, \$7.95. A book designed to introduce layman and teacher to the subject of entomology. Provides identification keys and advice for collectors.

IT'S NOT TOO LATE TO STOP SMOKING CIGARETTES!—Alton Blakeslee—Public Affairs Committee, 20 p., illus., paper, 25¢ direct to publisher, 381 Park Ave. S., New York 10016. Summarizes findings of research on the effect on health when smoking habit is discontinued.

THE LAND AND PEOPLE OF CZECHOSLOVAKIA—Elvajean Hall—Lippincott, 154 p., photographs, map, \$3.25. Portrait of a nation, its history and culture.

LIFE BEYOND THE EARTH—Samuel Mofat and Elie A. Shneur, with epilogue by Joshua Lederberg—Four Winds Press, 159 p., illus., \$2.95. Up-to-date information about the origin of life and research probing beyond the earth.

THE LIVING COMMUNITY: A Venture into Ecology—S. Carl Hirsch—Viking Press, 128 p., illus. by William Steinel, \$3.75. Designed to make boys and girls aware of the chain that links all living things together.

MAGNETIC TAPE RECORDING—Skipwith W. Athey—GPO, 326 p., illus., paper, \$1.25. A technology survey sponsored by NASA's Technology Utilization Division, describes advances in such fields as recording methods, tape moving systems, recorder electronics and miniature high-environment recorders.

MAHOGANY OF TROPICAL AMERICA: Its Ecology and Management—F. Bruce Lamb—Univ. of Mich. Press, 220 p., illus., \$7.50. A comprehensive study of one of the most important groups of trees of the western hemisphere, to

serve as reference work for conservationists, foresters and industry.

MOLECULES—J. C. Speakman—McGraw, 158 p., diagrams, \$4.95; paper, \$1.95. Monograph considers from the chemical point of view the structures, behavior and functions of the larger biological molecules.

NONDESTRUCTIVE TESTING—Warren J. McGonnagle—Gordon & Breach, 2nd ed., 455 p., illus., \$25. Offers thorough discussion of visual testing, liquid penetrant inspection, thermal methods, ultrasonics, X-ray radiography and other methods of nondestructive testing.

NORTH AMERICAN TREES (Exclusive of Mexico and Tropical United States)—Richard J. Preston, Jr.—M.I.T. Press, 395 p., illus., maps, paper, \$2.95. Reprint of second edition (1961), designed for field use, drawings of 232 species show leaves, twigs, flowers, seeds and range.

NUMBERS AT WORK: The Story and Science of Statistics—Hyman Alterman—Harcourt, 280 p., illus., \$5.95. Written by statistician for the general reader as an introduction to the important universal tool statistical theory has become in modern life.

THE OCEAN WORLD—Vladimir and Nada Kovalik—Holiday House, 191 p., photographs, diagrams, \$4.50. A book designed to inform young people and interest them in a career in oceanography.

OMNITAB: A Computer Program for Statistical Numerical Analysis—Joseph Hilsenrath and others—GPO, 266 p., \$3. National Bureau of Standards Handbook for scientists and engineers, describes general-purpose digital computer program that permits communication with large computer by means of simple English sentences.

1001 ANSWERS TO QUESTIONS ABOUT SPACE—Clarke Newlon—Grosset & Dunlap, rev. ed., 362 p., photographs, paper, \$2.95. Questions answered range from what space is, to who were the second nine astronauts selected.

PHYSICS, Part I-IV, I: The Universe, II: Optics and Waves, III: Mechanics, IV: Electricity and Atomic Structure—Physical Science Study Committee—Heath, 2nd ed., 659 p., illus., paper, \$2.44, \$2.28, \$2.28, \$2.44. Each separate part includes its own laboratory guide, index and answers to problems in addition to text.

PHYSIOLOGY AND BEHAVIOR, Vol. I, No. 1—Matthew J. Wayner, Ed.—Pergamon Press, 98 p., illus., paper, quarterly, \$30 annually; \$10 for certified private subscribers direct to publisher. Intended to aid the dissemination of original research on problems where physiology and behavior are closely related.

VIRUSES AND THE NATURE OF LIFE—Wendell M. Stanley and Evans G. Valens—Dutton, 224 p., photographs, diagrams, paper, \$2.35. Reprint (1961) presents essential facts about viruses, genetics and cancer research.

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AMERICANS IN SPACE

Five years of Manned Space Travel

BY ROSS OLNEY

Alan Shepard became the first American space traveler on May 5, 1961. Now, five years later, this important new book accurately recaps the exciting first five years of space flight.

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