

Books of the Week

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ADVANCES IN SPACE SCIENCE AND TECHNOLOGY, Vol. 5—Frederick I. Ordway, III, Ed.—Academic Press, 334 p., illus., \$13. Contains discussions of astronomical investigations of the sun, communication relay satellite techniques, solid propellant rocket technology, geodetic satellites, and orbital operations.

ANCIENT PLANTS AND THE WORLD THEY LIVED IN—Henry N. Andrews, Jr.—Comstock (Cornell Univ. Press), 279 p., photographs, drawings by Anna Schutte, \$5.75. Reissue (1947) of paleobotanist's highly readable treatment of the great pattern back of the plant kingdom.

THE ARAB WORLD TODAY—Morroe Berger—Doubleday, 463 p., map, paper, \$1.95. Reprint (1962), deals with the history and personality of Arabs and Moslems, their social institutions, and the range and cost of social change in modern times.

ARCHAEOLOGY—Samuel Rapport and Helen Wright, Eds.—Washington Square Press, 367 p., 36 plates, paper, 60¢. Reprint (1963) of anthology of essays by the great archaeologists of the past and present.

BEEES AND BEELINES—Judy Hawes—Crowell, unpagd, illus. by Alki, \$2.65. Explains to young readers the scientific interpretation of the honeybee's dances.

THE BIOLOGY OF PLANT PARASITIC NEMATODES—H. R. Wallace—St Martins, 280 p., illus., \$9.50. Treatise summarizes current knowledge of the behavior of plant nematodes and of the ways in which nematode activities are affected by changes in the environment.

THE BIRDS OF COLOMBIA and Adjacent Areas of South and Central America—R. Meyer de Schauensee—Livingston Pub. Co., 427 p., color plates, illus. by Earl L. Poole and George Miksch Sutton, maps, \$10. The handbook describes 1,556 species and lists 2,640 subspecies of an area that can claim 56% of the species recorded for the entire South American continent.

THE BROKEN IMAGE: Man, Science and Society—Floyd W. Matson—Braziller, 355 p., \$6.95. Concerned with the human self-image as it is reflected for man in his sciences, in particular in the field of the social sciences.

CELLULAR MEMBRANES IN DEVELOPMENT—Michael Locke, Ed.—Academic Press, 382 p., illus., \$12. Among others includes studies on unit membranes, bimolecular phospholipid membranes, and gamete membranes in fertilization.

THE CHANGING SCIENCE OF MINERALOGY—Cornelius S. Hurlbut and Henry E. Wenden—Heath, 117 p., illus., paper, \$1.32. Presents the basic chemical theory necessary for understanding the revolution in mineralogical thought and method with the advent of X-ray crystal analysis.

CHILD PSYCHOTHERAPY: Practice and Theory—Mary R. Haworth, Ed.—Basic Bks., 459 p., \$8.50. A comprehensive presentation of contrasting theoretical and methodological approaches to various aspects of the psychotherapy of children by 45 leading theorists and practitioners.

CURRENT TOPICS IN ORGANIC CHEMISTRY, Vol. 1—Louis F. Fieser and Mary Fieser, Eds.—Reinhold, 121 p., diagrams, paper, \$2.75. Selected journal articles published during 1963, topics ranging from Aliphatics to Dyes.

EARLY EVOLUTION OF LIFE: BSCS Pamphlet No. 11—Richard S. Young and Cyril Ponnampuram

—AIBS (Heath), 30 p., illus., paper, eight pamphlets per school year, subscription \$4. Curriculum enrichment pamphlets incorporate latest research findings and point out areas of further research.

EARTHQUAKES: An Introduction to Observational Seismology—Wm. Mansfield Adams—Heath, 122 p., illus., paper, \$1.32. Seismologist describes for the adult student some of the phenomena observed on recent earthquakes of note, using the inductive method to discuss classification of earthquakes.

THE ELASTIC CONSTANTS OF CRYSTALS—H. B. Huntington—Academic Press, 139 p., diagrams, \$3.95. Reprint from Volume 7 of Solid State Physics.

ELECTRONICS: Key to Exploring Space—Robert Wells—Dodd, 175 p., photographs, \$3.25. A non-technical account of the complex system of electronic data acquisition, tracking and decoding without which our exploration of space would yield very little information.

ENERGY DOES MATTER—Werner Emmerich and others—Walker, 250 p., photographs, diagrams, \$5.95. With the purpose of inspiring interested students in science careers, scientists in the three disciplines of physics, mathematics and engineering, all members of the Westinghouse Research Laboratory, explore different aspects of energy.

ENGINEERING—Samuel Rapport and Helen Wright, Eds.—Washington Square Press, 378 p., diagrams, paper, 60¢. Reprint (1963), anthology of non-technical essays that explore the history of engineering.

EVOLUTIONARY AND GENETIC BIOLOGY OF PRIMATES, Vol. II—John Buttner-Janusch, Ed.—Academic Press, 330 p., illus., \$12.50. Includes research papers on such subjects as the use of the hand in power primates and lemur reproductive physiology and behavior.

FORMALDEHYDE—J. Frederic Walker—Reinhold, 3rd ed., 701 p., illus., \$23. Completely updated monograph offering a critical review of the manufacture, properties, chemical reactions, analysis and use of formaldehyde the production of which has reached six billion pounds per year with uses ranging from acetate resins to vaccines.

FOUR AGAINST EVEREST—Woodrow Wilson Sayre—Prentice-Hall, 259 p., photographs, \$5.95. Personal story about the attempt of a small amateur expedition to climb the yet unconquered North Face of Mt. Everest.

FROM DREAM TO DISCOVERY: On Being a Scientist—Hans Selye—McGraw, 419 p., illus., \$6.95. Well known medical research scientist draws on his own experience to answer questions about selecting a scientific career by considering the why, who, what, when, where and how aspects of this profession.

THE GOOD HOUSEKEEPING INTERNATIONAL COOKBOOK: Official World's Fair Edition—Dorothy B. Marsh, Ed.—Harcourt, 245 p., 16 color photographs, illus. by Bill Goldsmith, \$3.95. A recipe book adapted to American standards, designed to develop a better understanding of the tastes and flavors of foreign foods.

A GUIDE TO TECHNICAL WRITING—W. George Crouch and Robert L. Zetler—Ronald, 3rd ed., 447 p., illus., \$6. Modern treatment of the mechanics of good technical writing, from technical letters through informal memoranda to semitechnical articles.

HABITABLE PLANETS FOR MAN—Stephen H. Dole—Blaisdell Pub. Co., 158 p., diagrams, \$5.75. From the point of view of specific human requirements the author offers the astrochemist's insight into the natural environment provided by known and by

hypothetical planets, and discusses the probability of occurrence of habitable planets.

HERPETOLOGICAL TYPE-SPECIMENS IN THE UNIVERSITY OF ILLINOIS MUSEUM OF NATURAL HISTORY—Hobart M. Smith, David A. Langebartel and Kenneth L. Williams—Univ. of Ill. Press, 80 p., \$4; paper, \$3. Collection has 1,827 type-specimens, most of which are Mexican in geographic origin.

IN THE MIDST OF PLENTY: The Poor in America—Ben H. Bagdikian—Beacon Press, 207 p., photographs, \$4.50. A reporter describes the plight of citizens trapped at the lowest income level in the United States.

INNOVATION AND EXPERIMENT IN EDUCATION: A Progress Report—Panel on Educational Research and Development, Jerrold R. Zacharias, Chmn.—Pres. Science Advisory Committee (GPO), 79 p., paper, 35¢. Explores contribution that research and development can make to teaching at the elementary and secondary school level.

INTERMARRIAGE: Interfaith, Interracial, Interethnic—Albert I. Gordon—Beacon Press, 420 p., \$10. The author, a social anthropologist and rabbi aided by computers, has analyzed the views on intermarriage of more than 5,000 college students across the nation.

IT'S NESTING TIME—Roma Gans—Crowell, unpagd, illus. by Kazuo Mizumura, \$2.65. Tells boys and girls how the different birds build their nests.

JOURNAL OF SOUND AND VIBRATION, Vol. I, No. 1—P. E. Doak, Ed.—Academic Press, 111 p., diagrams, paper, quarterly, annual subscription \$18; private subscriptions \$12. Devoted to the publication of original papers on the results of experimental or theoretical work on any aspect of sound and vibration, including engineering problems and instrumentation.

THE LAND AND PEOPLE OF NEW ZEALAND—Edna Mason Kaula—Lippincott, 160 p., photographs, map, \$3.25. Brief portrait of a nation.

THE LAND AND PEOPLE OF SYRIA—Paul W. Copeland—Lippincott, 160 p., photographs, map, \$3.25. A compact portrait of the geography, history and culture of Syria.

PHOTOPHYSIOLOGY, Vol. I: General Principles; Action of Light on Plants. Vol. II: Action of Light on Animals and Microorganisms; Photobiological Mechanisms; Bioluminescence—Arthur C. Giese, Ed.—Academic Press, 377 p., 441 p., illus., \$14, \$15. An up-to-date review of photophysiological research.

THE PHYSIOLOGY AND BIOCHEMISTRY OF HERBICIDES—L. J. Audus, Ed.—Academic Press, 555 p., illus., \$16.50. This advanced survey deals with the classification and determination of herbicides, herbicide behavior in plant and soil, the morphogenetic effects of herbicides, biophysical processes and mechanisms of herbicide action, susceptibility, selectivity, and the design of herbicides.

POPULATION GENETICS: BSCS Pamphlet No. 12—Bruce Wallace—AIBS (Heath), 36 p., illus., paper, one of eight pamphlets per school year, \$4. Surveys Mendelian genetics and applies the laws to various populations.

PRINCIPLES OF CHEMISTRY, Book 2: A Programmed Text—Frank E. Harris—Behavioral Research Labs. (Addison-Wesley), 564 p., paper, \$4.80. Covers electrical charges, acids, bases and salts, solubility, acid-base reactions, and ionic structures and complexes.

RADIATION, RADIOACTIVITY AND INSECTS—R. D. O'Brien and L. S. Wolfe—Academic Press, 211 p., illus., \$5.95. Monograph developed jointly by AIBS and AEC, deals with the effects of ionizing radiation, tagging techniques, radiosterilization and biochemistry studies utilizing radioisotopes.

RAIN IN THE WOODS and Other Small Matters—Glen Rounds—World Pub. Co., 95 p., illus. by author, \$3. About observing small wildlife like tent caterpillars, a spider in the rain, a leaf-cutting bee or a wasp hunting a spider.

WILD WINGS OVER THE MARSHES—Lucille Neville Stratton and William David Stratton—Golden Gate Junior Bks., 95 p., illus. by Bernard Garbutt, \$3.75. An attractive introduction to water birds, for boys and girls.

YOU AND YOUR CELLS—Leo Schneider—Harcourt, 157 p., photographs, illus. by Henri A. Fluchere, \$3.75. Nontechnical and readable introduction to cellular structure, the chemistry of molecules and the systems that maintain the balance of life.

• Science News Letter, 85:284 May 2, 1964

EXPLORE THE SKIES!

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