

Books of the Week

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THE ANIMAL KINGDOM—Robert T. Orr—Macmillan, 380 p., photographs, \$9.95. Zoologist-naturalist here reviews for the layman the evolving animal world of which man is both brother and trustee, describing each phylum in order of ascending complexity.

APPLIED SOCIOLOGY: Opportunities and Problems—Alvin W. Gouldner and S. M. Miller, Eds.—Free Press, 466 p., \$7.95. Examines sociology as a working tool of modern society, shows how the principles, methods and results of sociology can be utilized by industry, labor, government, organizations and the law.

THE ATOMIC NUCLEUS—M. Korsunsky, transl. from Russian by G. Yankovsky—Gordon & Breach, 454 p., illus., \$12.50. Russian text on nuclear physics.

BENJAMIN FRANKLIN: Scientist-Diplomat—Charles Michael Daugherty—Macmillan, 41 p., illus. by John Falter, \$2.95. Beautifully illustrated science story book for children.

BIOCHEMICAL DIMENSIONS OF PHOTOSYNTHESIS—David W. Krogmann and Wendell H. Powers, Eds.—Wayne State Univ. Press, 124 p., paper, \$5. Collection of papers presented for the "Frontiers in Chemistry" lecture series in spring 1964.

BRACED FRAMEWORK: An Introduction to the Theory of Structures—E. W. Parkes—Pergamon,

198 p., diagrams, \$3.25. Deals with statistically determinate trusses, redundant trusses, secondary stresses and failure of braced framework.

BROOKLYN BRIDGE: Fact and Symbol—Alan Trachtenberg—Oxford Univ. Press, 182 p., plates, \$5.75. The story of the Roeblings' technological accomplishment, in the context of contemporary American culture.

CAREERS FOR WOMEN AFTER MARRIAGE AND CHILDREN—Barbara Powell O'Neill—Macmillan, 401 p., \$5.95. A comprehensive guide discussing ways for mature women to find productive, meaningful careers in a wide variety of fields.

CHEMISTRY AND BEYOND: A Selection from the Writings of the Late Professor F. A. Paneth—Herbert Dingle and G. R. Martin, Eds.—Interscience Pubs., 285 p., illus., \$6. Selected papers on the history of chemistry, Thomas Wright and Immanuel Kant, meteorites and miscellaneous other subjects.

THE CLASSICAL MOMENT PROBLEM and Some Related Questions in Analysis—N. I. Akhiezer, transl. from Russian by N. Kemmer—Hafner Pub. Co., 253 p., \$10. Devoted to the detailed investigation of the moment problem, and its connections with functional analysis, the theory of functions and the spectral theory of operators.

CLASSICS IN SEMANTICS—Donald E. Hayden and E. Paul Alworth, Eds.—Philosophical Lib., 382 p., \$10. Selection of representative essays, from Plato's "Cratylus" to "Semantic Therapy" by Francesco Barone.

CONCEPTS IN PHYSICS—Reuben Benumof—Prentice-Hall, 562 p., diagrams, \$13. Presents a modern, non-calculus course in general physics for students in the career-oriented programs offered in community colleges, junior colleges and four-year colleges.

A CONTINENT FOR SCIENCE: The Antarctic Adventure—Richard S. Lewis, foreword by Thomas O. Jones—Viking Press, 300 p., photographs, maps, \$7.95. Depicts scientists at work and explains the significance of their findings in the international exploration of the ice-clad continent.

DAILY LIFE IN GREECE at the Time of Pericles—Robert Flaceliere, transl. from French by Peter Green—Macmillan, 310 p., 39 plates, maps, \$6.95. Using the resources of ancient literatures, history and archaeology, French scholar here recreates life in 5th century Athens.

THE DULUTH MONGOOSE—Jack Denton Scott—Morrow, 159 p., illus. by Lydia Fruhauf, \$3.50. A story about a mongoose in a zoo, government regulations and the American people.

ELEMENTARY LOGIC—Willard Van Orman Quine—Harper, rev. ed., 129 p., paper, \$1.60. Explains formal concepts of modern logic, the paraphrasing of words into symbols, testing procedure for truth-function logic, and proof procedures for the logic of quantifiers.

EMILY POST'S ETIQUETTE: The Blue Book of Social Usage—rev. by Elizabeth L. Post—Funk & Wagnalls, 11th rev. ed., 707 p., illus., \$5.95. Updated by the wife of Emily Post's grandson, the book continues to stress consideration and unselfishness as an integral part of American good manners.

EXPLORING DEATH VALLEY—Ruth Kirk—Stanford Univ. Press, 2nd ed., 88 p., photographs, maps, paper, \$1.95. Detailed guide written by wife of ranger.

FREEDOM AND DISCIPLINE IN ENGLISH: Report of the Commission on English—Harold C. Martin, Chmn.—College Entrance Examination Bd., 178 p., \$2.75; paper, \$1.75. Result of a five-year study on the teaching of English in American schools, with analysis and recommendations for improvement.

GALILEO GALILEI: Space Pioneer—Arthur S. Gregor—Macmillan, 43 p., illus., \$2.95. Explains in simple language some basic laws of the movement of objects in space, for children.

HEALTH AND DISEASE—Rene Dubos, Maya Pines and the Editors of LIFE—Time Inc., 198 p., illus. (72 p. in color), \$3.95 direct to TIME-LIFE Bks., 540 N. Mich. Ave., Chicago 11, Ill. An excursion through the history of health and prevention of disease.

HYBRIDS—David C. Rife—Public Affairs Press, 159 p., illus., \$3.75. Deals in nontechnical language with hybridization in corn, cattle, unusual animals and plants, and hybridization in man.

INTEGRAL EQUATIONS CALCULUS OF VARIATIONS—Edouard Goursat, transl. from French by Howard G. Bergmann—Dover, 389 p., paper, \$2.75. New unabridged English translation of work originally published in 1956.

THE INVENTIONS OF LEONARDO DA VINCI—Margaret Cooper—Macmillan, 182 p., illus., \$5.95. Depicts and discusses 110 inventions, gadgets and plans the great painter devised 500 years ago.

IRREDUCIBLE REPRESENTATIONS OF THE SPACE GROUPS—O. V. Kovalev, transl. from Russian by A. Murray Gross—Gordon & Breach, 154 p., \$7. Written for research workers who deal with problems in the physics of crystals.

THE LAND AND PEOPLE OF CEYLON—C. Maxwell-Lefroy—Macmillan, 96 p., 22 photographs, map, \$2.50. Short history and contemporary portrait of the island country inhabited by Sinhalese and Tamils.

THE LONG ROAD TO COLLEGE: A Summer of Opportunity—Richard Schickel—Rockefeller Foundation, 44 p., photographs, paper, single copies free upon request direct to publisher, 111 W. 50th St., New York, N.Y. 10020. Special report on the Rockefeller Foundation's program toward equal opportunity for all, showing in particular potentially talented Negro high school students experiencing summer courses at Princeton, Dartmouth and Oberlin.

McGRAW-HILL YEARBOOK OF SCIENCE AND TECHNOLOGY, 1965—David I. Eggenberger, Exec. Ed., Staff of the McGraw Hill Encyclopedia of Science and Technology—McGraw, 454 p., photographs, diagrams, \$22.50. Comprehensive coverage by specialists of the important scientific and technological developments of the previous year.

THE MOLDS AND MAN: An Introduction to the Fungi—Clyde M. Christensen—Univ. of Minn. Press, 3rd rev. ed., 284 p., illus., 14 plates, \$5.50. Text and reference work, presents accurate factual information in readable form.

ON JUSTICE IN SOCIETY—Morris Ginsberg—Penguin Bks., 248 p., paper, \$1.25. British sociologist examines justice in relation to personal security, the right to education, political rights, and rights in the sphere of thought and belief.

THE ORGANIZATION OF SOCIETY—Paul E. Mott—Prentice-Hall, 372 p., diagrams, \$6.50. An introductory text, stressing the methods of science in approaching the study of human behavior.

PATTERNS OF DISCOVERY: An Inquiry into the Conceptual Foundations of Science—Norwood Russell Hanson—Cambridge Univ. Press, 241 p., illus., paper, \$1.95. Reprint (1958).

PHYSICAL PRINCIPLES OF CHEMISTRY—R. H. Cole and J. S. Coles—Freeman, 705 p., diagrams, \$12. This text is distinguished from other textbooks of physical chemistry by its early consideration of atomic and molecular structure.

TO SAVE THE SOIL—Naomi Talley, introd. by Stewart L. Udall—Dial Press, 79 p., photographs, maps, \$2.95. Outlines for young people the nature and causes of soil erosion and the efforts of soil conservation.

TODAY'S HEALTH GUIDE: A Manual of Health Information & Guidance for the American Family—W. W. Bauer, Ed.—Am. Medical Assn., 624 p., illus., \$4.95. Contains 90 easy-to-read chapters dealing with family aspects of health, includes full-color transparencies of the organs and systems of the body.

VIBRATION: Based on Six Lectures Delivered at the Royal Institution, London, December 1962—R. E. D. Bishop—Cambridge Univ. Press, 120 p., 20 plates, diagrams, \$5.50; paper, \$1.95. Non-mathematical account of the mechanical engineer's approach to the general principles underlying such complex processes as the swaying of overhead power lines, the oscillation of bridges, and crack detection in metal forgings.

A WITCH'S GUIDE TO GARDENING—Dorothy Jacob, foreword by B. J. Chute—Taplinger Pub. Co., 118 p., illus., \$3. About the lore and legends of the magic ascribed to plants.

THE YOUNG FARADAY—Patrick Pringle—Roy Pubs., 122 p., illus., \$3.25. Boyhood story of an inventor.

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