

books OF THE WEEK

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THE CODEBREAKERS: The Story of Secret Writing—David Kahn—Macmillan, 1967, 1164 p., illus., \$14.95. Seeks to cover the entire history of cryptography, deals with the development of the various methods of making and breaking codes and ciphers, and tells how these methods have affected the lives of men.

GALILEO GALILEI: Dialogue Concerning the Two Chief World Systems, Ptolemaic & Copernican—Transl. by Stillman Drake, foreword by Albert Einstein—Univ. of Calif. Press, 1967, 2nd ed., 496 p., illus., \$12.50. Contains corrections, revisions of text and additional notes.

GREAT ACCIDENTS IN SCIENCE THAT CHANGED THE WORLD—Jerome S. Meyer—Arco, 1967, 80 p., illus., \$3.95. About some of the observations made by Archimedes, Oersted, Morse, Eastman and other famous inventors.

HUMMINGBIRDS—Walter Scheithauer, transl. from German by Gwynne Vevers—Crowell, 1967, 176 p., 76 color photographs by author, drawings, \$10. An intimate study of hummingbirds, their flight, food and behavior, illustrated with extraordinary stroboscopic photographs capturing the birds' fantastic flight techniques on the wing.

INTERSTELLAR GRAINS—N. C. Wickramasinghe—Chapman & Hall (Barnes & Noble), 1967, 154 p., illus., \$11.75. Gives an account of the theories and observations. All major grain models are described critically in relation to observational evidence, with particular stress on the theory of graphite grains.

IRRIGATION OF AGRICULTURAL LANDS—Robert M. Hagan, Howard R. Haise and Talcott W. Edminster, Eds.—Am. Soc. of Agronomy, 1967, 1,212 p., illus., \$22.50. Comprehensive reference volume deals with the principles of scientific irrigation—from climatic environment, water sources, water-soil-plant relations to evapo-transpiration, irrigation of principal crops, irrigation systems and their management.

JAPANESE CLOCKS—N. H. Mody—Tuttle, 1967, unpagged, 135 plates, \$17.50. Substantial treatment of the development of early Japanese time pieces, discusses time measurement and the Japanese calendar, and shows many examples of lantern, bracket and pillar clocks as well as other varieties.

THE LAND AND PEOPLE OF THE WEST INDIES—Philip Sherlock—Lippincott, 1967, 172 p., photographs, map, \$3.25. Informative narrative about the Caribbean islands.

LAND OF A THOUSAND ATOLLS: A Study of Marine Life in the Maldivic and Nicobar Islands—Irenäus Eibl-Eibesfeldt, transl. from German by Gwynne Vevers—World Pub. Co., 1967, 195 p., photographs by author, drawings, map, \$12.50. Explores the underwater life among the coral reefs in the Indian Ocean, describes new findings about the ecology of the reefs.

ORNITHOLOGY: An Introduction—Austin L. Rand—Norton, 1967, 311 p., illus., \$8.50. Written on a professional level for the interested layman, this comprehensive study of the habits and biology of birds emphasizes evolutionary aspects.

THE PATIENT'S PROGRESS—Felix Marti-Ibanez, Ed.—MD Pubns., 1967, 148 p., \$5.95. Against various historic epochs, the narrative projects the developments in the relationship between patient and his physician.

QUESTIONS AND ANSWERS ABOUT ANTS—Millicent E. Selsam—Four Winds Press, 1967, 75 p., illus. by Arabelle Wheatley, \$3.50. Beautifully designed book introducing younger readers to the ways of ant behavior.

THE QUIET FURIES: Man and Disorder—Elton B. McNeil—Prentice-Hall, 1967, 207 p., illus. by Edith Dines, \$5.95. Clinical psychologist relates actual cases of mental health problems selected to illustrate the kinds of disorder to which all human lives are subject to a greater or lesser degree.

THE RANDOM HOUSE GUIDE TO GRADUATE STUDY IN THE ARTS AND SCIENCES—E. R. Wasserman and E. E. Switzer—Random House, 1967, 361 p., \$6.95. Discusses the nature of graduate study and its choice, describes existing programs by field of study, and offers tabulated information on departments in each discipline, ratings, financial aid and other pertinent information.

SCIENCE AND IMAGINATION: Selected Papers—Warren Weaver, foreword by George W. Beadle—Basic Bks., 1967, 295 p., \$5.95. Essays addressing the general reader as well as articles originally prepared for "mildly professional audiences."

SCIENCE AND SUBJECTIVITY—Israel Scheffler—Bobbs-Merrill, 132 p., \$6. A philosophic analysis of the ideal of scientific objectivity, observational differences, objective controls and continuously expanding experience.

SCIENCE IS NOT ENOUGH—Vannevar Bush—Morrow, 1967, 192 p., \$4.50. Collection of revised and new essays on such topics as management, baseball, poverty and medicine.

THE SCIENCE OF ART: The Cybernetics of Creative Communication—Robert E. Mueller—Day, 1967, 352 p., illus. by author, \$6.95. Trained in engineering, the author explores the world of the arts as influenced by newly developed techniques.

SENR KON-TIKI: The Biography of Thor Heyerdahl—Arnold Jacoby—Rand McNally, 1967, 424 p., 56 photographs, \$6.95. Informally written by a life-long friend of Heyerdahl's, the book presents a lively portrait of the personality and adventurous life of the explorer.

STANDARD HANDBOOK FOR MECHANICAL ENGINEERS—Marks, rev. by Staff of Specialists. Theodore Baumeister, Ed.-in-Chief—McGraw-Hill, 1967, 2360 p., 1270 illus., \$29.50. Golden Anniversary Edition, emphasizes concise, practical and up-to-date information providing ready answers to engineers.

THE STARS TONIGHT—John and Cathleen Polgreen—Harper, 1967, 87 p., stars maps, photographs, \$3.95. Written by amateur astronomers for beginning observers, with maps explaining celestial directions, motion of stars and best positions for viewing.

THE STORY OF SCIENCE IN AMERICA—L. Sprague de Camp and Catherine C. de Camp—Scribner's 1967, 282 p., illus. by Leonard Everett Fisher, \$4.95. A handsomely presented short history, from the early inventors and explorers to recent basic and applied research.

SUN PROTECTION: An International Architectural Survey—Ernst Danz—Praeger, 1967, 152 p., photographs, drawings, \$13.50. Deals with such shade devices for buildings as cantilevered roofs, balconies, structural framing, movable shutters and shaded glass, each chapter illustrated with a selection of international practical examples.

TECHNOLOGY IN WESTERN CIVILIZATION, Vol. I: The Emergence of Modern Industrial Society, Earliest Times to 1900. Vol. II;

Technology in Western Civilization—Melvin Kranzberg and Carroll W. Pursell, Jr., Eds.—Oxford Univ. Press, 1967, 802 p., 772 p., illus., boxed, \$27.50. Presents the social and "hard-ware" history of technology in the broad context of more traditional historical interests. The first volume is worldwide in scope, while the second focuses primarily on American developments.

THE TRADITIONAL CRAFTS OF PERSIA: Their Development, Technology and Influence on Eastern and Western Civilizations—Hans E. Wulff—M.I.T. Press, 1967, 404 p., photographs, drawings, map, \$25. A scholarly history of the continuous development of Persian technology, tracing the strands of influence through many cultures. Includes lexicon of technical terms relating to all the major crafts of Persia.

TUNNEL DIODES—M. A. Lee, B. Easter and H. A. Bell—Chapman & Hall (Barnes & Noble), 1967, 196 p., diagrams, \$6.25. Monograph covers the theory of operations and manufacturing metallurgy, and describes linear and non-linear circuit applications, at post-graduate level.

UNDERWATER ACOUSTICS, VOL. 2—V. M. Albers, Ed.—Plenum Press, 1967, 416 p., illus., \$12. Proceedings of an Institute held in 1966 in Copenhagen, Denmark, reporting on advanced transducer developments, flow-noise, research on cavitation nuclei, sound radiation of vibratory systems, and internal waves.

THE WORLD OF THE FROG AND THE TOAD—George Porter—Lippincott, 1967, 153 p., photographs by author, \$4.95. Beautifully matched text and pictures of observations of select species through the seasons.

WORLD OF THE GREAT WHITE HERON: A Saga of the Florida Keys—Marjory Bartlett Sanger—Devin-Adair, 1967, 146 p., illus. by John Henry Dick, map, \$10. From dawn to dusk through an April day, the author explores the animal and plant life of the reefs and shallows, the beaches and hammocks, stressing the ecology of the region.

THE URBAN CHOICES: The City and Its Critics—Roger Starr—Penguin Bks., 1967, 284 p., paper, \$1.45. Attempts to present the real issues U.S. urban centers must face and attempts to establish a set of values by which decisions of urban government can be judged.

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