

# books OF THE WEEK

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**ADMIRALTY MANUAL OF NAVIGATION**, Vol. 1—Navigation and Direction Division, Admiralty—HMSO (Brit. Information Service, N.Y.), 1967, 510 p., illus., maps, \$9. Revised edition of practical guide to navigation and pilotage, with updated sections on radio aids and navigational instruments.

**AEROBICS**—Kenneth H. Cooper, M.D., foreword by Lt. General Richard L. Bohannon, preface by Sen. William Proxmire—Evans (Lippincott), 1968, 253 p., \$4.95. Based on medical studies of the relationship of exercise to health by correlating oxygen consumption and pulse rate with various types of exercise and the vigor and duration of each, the book offers both field test and conditioning programs.

**BIOLOGICAL CLOCKS AND PATTERNS**—Shirley Moore—Criterion Bks., 1968, 133 p., illus. by Omar Davis, \$3.50. A highly readable and informative book about the clockworks of various forms of life, land and sea rhythms, navigation equipment and internal thermometers and hygrometers. Reading list included.

**THE BODY**—Anthony Smith—Walker, 1968, 524 p., \$9.95. Encyclopedic, up-to-date and highly readable overview of the physical and social properties of man, arranged in 32 informative chapters ranging from evolution, race and population through birth, blood groups, brain to the senses, respiration and effect of radiation.

**BORN TO HUNGER**—Arthur Hopcraft—Houghton, 1968, 258 p., \$4.50. An experienced journalist's account of living conditions in Africa, Asia and South and Central America.

**BOTANY MADE SIMPLE**—Victor A. Greulich—Doubleday, 1968, 191 p., illus. by Charles C. Clare, Jr., paper, \$1.95. Basic introduction to botany, for self-study or review.

**THE CHANGING LANDSCAPE**: Salisbury, Connecticut—Christopher Rand—Oxford Univ. Press, 192 p., \$5. Records the acceptance of modern ways and the effects they have on an American rural community.

**COMPARATIVE GUIDE TO AMERICAN COLLEGES** for Students, Parents and Counselors, 1968/1969—James Cass and Max Birnbaum—Harper, 1968, 823 p., \$10. Completely revised source on admission requirements, academic and special programs offered, faculty qualifications, enrollment figures, student body, religious orientation, campus life, and costs.

**THE COMPLEXITIES OF AN URBAN CLASSROOM**: An Analysis Toward a General Theory of Teaching—Louis M. Smith and William Geofrey—Holt, 1968, 277 p., diagrams, \$5.95. An intensive analysis of the day-by-day lessons, behavior, issues and problems involved in teaching a class of seventh graders in a slum school.

**CONSCIENCE IN AMERICA**: A Documentary History of Conscientious Objection in America, 1957-1967—Lillian Schlissel, Ed.—Dutton, 1968, 444 p., \$6.50. Defines the legal points of conscientious objection to military service and documents its manifestations since colonial times with 55 statements of individual protests in times of crisis.

**A CRIMINAL JUSTICE SYSTEM AND THE INDIGENT**: A Study of Chicago and Cook County—Dallin H. Oaks and Warren Lehman—Univ. of Chicago Press, 1968, 203 p., tables, \$7.50. A thorough examination of the criminal process in a large city, with emphasis on the indigent defendant, analyzed as a multi-stage screening process by which society chooses those to be treated or punished for criminal behavior.

**CULTURE AND THE CROWD**: A Cultural History of the Proletarian Era—Deric Regin—Chilton Bks., 1968, 512 p., \$8.50. Probes the development of patterns of Western civilization during the last two centuries as they relate to the trend toward mass appeal.

**DISPERSION FUEL ELEMENTS**: An AEC Monograph—A. N. Holden—Gordon & Breach, 1968, 255 p., illus., ref. ed., \$12.50; prof. ed., \$4.50. Deals with nuclear fuels based on a compound of uranium dispersed in a nonfissionable matrix, including such recent developments as spherical fuel particles and pyrolytic coatings on fuel particles that improve their performance.

**THE DYNAMICS OF RESIDENTIAL TREATMENT**: A Social System Analysis—Howard W. Polsky and Daniel S. Claster, with Carl Goldberg—Univ. of N. C. Press, 1968, 223 p., \$6.50. Original research study of residential treatment of problem adolescents, observing and analyzing in a systematic fashion the residents' responses to staff and peer group.

**THE ECONOMICS OF TECHNOLOGICAL CHANGE**—Edwin Mansfield—Norton, 1968, 257 p., \$6.95. Drawing on recent economic studies, as well as on relevant work in the other social sciences, management and operations research, the book describes and analyzes the way in which new processes and products are created and assimilated, and investigates the public and private policy issues involved.

**ELECTRICAL SHOCK WAVES IN POWER SYSTEMS**: Traveling Waves in Lumped and Distributed Circuit Elements—Reinhold Rudenberg, transl. from German fourth edition by Hanns J. Wetzstein—Harvard Univ. Press, 1968, 336 p., illus., \$15. Examines the generation and propagation of electrical shock waves and the performance of power lines and windings under shock wave conditions.

**MEDICAL PLANS AND HEALTH CARE**: Consumer Participation in Policy Making With a Special Section on Medicare—Jerome L. Schwartz, foreword by Paul F. O'Rourke—Thomas, C. C., 1968, 349 p., \$16.75. An appraisal of the policies, benefits, quality controls, staffing and other aspects of consumer cooperative and private physician prepaid health plans.

**MEN AND DINOSAURS**: The Search in Field and Laboratory—Edwin H. Colbert—Dutton, 1968, 283 p., 116 plates, drawings, maps, \$8.95. Vertebrate paleontologist, a hunter of dinosaur bones on five continents, tells the story of man's hunt for the long-vanished giant reptiles.

**METAPHYSICS AND MEASUREMENT**: Essays in Scientific Revolution—Alexandre Koyre, transl. from French—Harvard Univ. Press, 1968, 169 p., \$7. Dealing with such central figures as Galileo, Pascal and Gassendi, the author analyzes the 17th century contribution, stressing the function of the creative imagination as it produces new concepts under the control of experiment and observation.

**NEBULAE AND INTERSTELLAR MATTER**—Barbara M. Middlehurst and Lawrence H. Aller, Eds.—Univ. of Chicago Press 1968, 835 p., illus., \$27.50. Volume VII of STARS AND STELLAR SYSTEMS, deals with the formation of stars, diffuse and dark nebulae, flare stars, interstellar grains, planetary nebulae, nonthermal galactic radio sources, and cosmic rays.

**NORTHERN MISTS**—Carl O. Sauer—Univ. of Calif. Press, 1968, 204 p., \$5.75. An annotated tale of early voyages in the Northern Atlantic from seamen's records, legends, archaeological finds and other traces supporting speculations about Vinland's location and the Irish colony at Belle Isle.

**PARTICLE SIZE MEASUREMENT**—Terence Allen—Chapman & Hall (Barnes & Noble), 1968, 248 p., illus., \$8. Gives an account of the present state of the methods of measuring particle size through sampling, size and shape, sieving, microscopy, gravitational field, sedimentation analysis, centrifugal methods, permianetry and gas adsorption.

**PEOPLE ASPECTS**: Attracting and Retaining R&D Personnel—Egbert M. Kipp—Gordon & Breach, 1968, 104 p., \$9. Summarizes research administrator's experience and methods used in trying to relate the aims of corporate management to the interests and satisfactions of its research scientists.

**PLANT VIRUSES**—Kenneth M. Smith—Methuen (Barnes & Noble), 1968, 4th ed., 166 p., 15 plates, \$5. Completely rewritten, concise introduction to the field, with special attention to the ultrastructure of the virus particles and their observation by electron microscopy inside the cells of the host plant and the insect vector.

**THE RACING GAME**—Marvin B. Scott—Aldine Pub. Co., 1968, 186 p., \$5.95. A study of the race-track world, its activities, objectives and strategies, theories on gambling, sociology of leisure, symbolic interaction and game theory.

**RADIO AND TELEVISION**: Principles and Applications—J. P. Hawker—Hart Pub. Co., 1968, 399 p., diagrams, \$12.50. Popularly written book

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to give the hobbyist an understanding of the fundamentals and the technology of radio and TV equipment used in homes today.

**RECOGNIZING PATTERNS**: Studies in Living and Automatic Systems—Paul A. Kolers and Murray Eden, Eds.—M.I.T. Press, 1968, 237 p., illus., \$11. Applies pattern recognition broadly as comprising the detection, perception or recognition of any kind of regularity or relation between things, the topics range from electrophysiology to the perception of speech in living systems, and from contour-tracing algorithms to semantic patterns.

**RECOMMENDATIONS CONCERNING RESERVOIRS**—C. Marcello and others—Unesco Pubns. N.Y., 1967, 35 p., paper, \$1.50. Presents principles and abstracts of regulations concerning engineering requirements for reducing hazards caused by dam failures.

**THE VIRUS REALM**—Paul D. Thompson—Lippincott, 1968, 189 p., photographs, drawings, \$4.50. Describes past and present research in the field of the malevolent micro-organisms, how the body defends itself, the spread of disease, some experiments and book list.

## FOR YOUNGER READERS

**BONE FOR BONE**—Margaret Cosgrove—Dodd, 1968, 128 p., illus. by author, \$3.95. An introduction to comparative anatomy in vertebrates, presented both visually and scientifically to boys and girls.

**MIRACULOUS WEB**: The Balance of Life—Natalie Friendly—Prentice-Hall, 1968, 92 p., illus. by Bette Fast, \$3.95. Introduces young boys and girls to the concepts of ecology.

**THE STORY OF THE DEAD SEA SCROLLS**—Uriel Rappaport—Harvey House, 1968, 128 p., photographs, illus. by Milka Cizik, \$3.95. Provides young people with a background to the discovery and unraveling of the scrolls, and to the history of the period in which they were written.

**WEEDS**—Dorothy Childs Hogner—Crowell, 1968, 117 p., illus. by Nils Hogner, \$3.95. For young naturalists, describes more than 40 land and water plants.

**WONDERS OF FOSSILS**—William H. Matthews III—Dodd, 64 p., photographs, drawings, \$3.25. Introduces youngsters to the hobby of fossil collecting.

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