

# books OF THE WEEK

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**ELECTRONICS REFERENCE DATABOOK**—Norman H. Crowhurst—TAB Bks., 1969, 232 p., diagrams, \$7.95; paper, \$4.95. Provides guidance in the use of data, arranged in 10 sections, from basic electronics to transmission lines.

**ENVIRONMENTAL MAN**—William Kuhns—Harper, 1969, 156 p., \$4.95. An analysis of the interaction between modern man and particular environments, probing the effects of speed, movies, disk jockeys, shopping centers, advertising and similar technological trends as they compete with the influence of Christian theology.

**THE ESSENTIAL WRITINGS OF ERASMUS DARWIN**—Chosen and edited with linking commentary by Desmond King-Hele—Hillary House, 1968, 223 p., plates, \$7. Selection from the 18th century English physician's writings, inventions, verse and research notes.

**EXPERIMENTAL "METABOLIC" CARDIOPATHIES AND THEIR RELATIONSHIP TO HUMAN HEART DISEASES**—Eors Bajusz, Ed. N.Y. Acad. of Sciences, Annals, Vol. 156, Art. 1, 1969, 625 p., illus., paper, \$26. Interdisciplinary research reports concerning metabolic form of heart-muscle diseases in man and animals.

**FORCE AND FOLLY: Essays on Foreign Affairs and the History of Ideas**—Hans Speier—M.I.T. Press, 1969, 342 p., \$12.50. Essays concerned with war and peace in the nuclear age, the political and international value of arms, war games, and limited vs. total war.

**HOW TO WRITE SCIENTIFIC AND TECHNICAL PAPERS**—Sam F. Trelease—M.I.T. Press, 1969, 185 p., diagrams, paper, \$2.95. Reprint (1958) of practical manual for students and research workers who are preparing illustrated papers or reports on the results of their investigations.

**THE INFINITE VOYAGE: Man's Future in Space**—Poul Anderson—Crowell-Collier Press, 1969, 160 p., photographs, \$4.95. An informed glimpse of what man can expect to explore in space with speculation about what he might discover.

**INVENTOR'S HANDBOOK**—Terrence W. Fenner and James L. Everett—Chemical Pub. Co., 1969, 309 p., illus., \$7.50. Detailed, practical information about making inventions profitable, includes list of companies that buy or license inventions, indexed by product, list of professional and patent services, model and prototype makers.

**MINERALOGY IN SOIL SCIENCE & ENGINEERING**—George W. Kunze, J. L. White and Richard H. Rust, Eds.—Soil Science Soc. of Am., 1968, 106 p., illus., paper, \$3. Symposium papers deal with mineralogical data requirements, soil classification investigations, trends in mineralogical analyses and related topics.

**PRINCIPLES OF HIGH-RESOLUTION RADAR**—August W. Rihaczek—McGraw-Hill, 1969, 498 p., illus., \$19.50. Comprehensive theory of resolution performance, from basic measurements on single targets through the nature of the resolution problem to capabilities and limits of radar and detailed discussion of waveform design.

**THE QUIET REBELS: The Story of the Quakers in America**—Margaret H. Bacon—Basic Bks., 1969, 237 p., plates, \$5.95. A history of American Quakers, their contributions to social change and cultural life in America.

**RAVEN SEEK THY BROTHER**—Gavin Maxwell—Dutton, 1969, 210 p., photographs, drawings by Robin McEwan, \$6.95. About life in the Scotland highlands near the sea, close to wild things, especially two friendly otters.

**SACO VALLEY SETTLEMENTS AND FAMILIES: Historical, Biographical, Genealogical, Traditional and Legendary**—G. T. Ridlon, Sr.—Tuttle, 1969, 1250 p., illus., maps, \$17.50. Reprint (1895) of local history and lively narrative recording the most important events in the towns on the Saco River, with biographies of the families and individuals instrumental in their settlement and advancement.

**THE SHAPE OF INTELLIGENCE: The Evolution of the Human Brain**—H. Chandler Elliott—Scribner, 1969, 303 p., drawings by Anthony Ravielli, \$12.50. A most readable account written by neuroanatomist especially for the layman,

exploring the human brain, tracing the breakthroughs in the development of the central nervous system from Amphioxus' neural tube to the mammals' cerebral hemispheres to the speech-endowed cortex.

**SOVIET ETHICS AND MORALITY**—Richard T. DeGeorge—Univ. of Mich. Press, 1969, 194 p., \$7.50; paper, \$2.95. A fully documented study of The Russian Institute of Columbia University, analyzes Soviet ethical theory, the meaning of ethical terms, the status of Soviet moral values and critically examines Soviet official morality.

**THE TASKS OF PENOLOGY: A Symposium on Prisons and Correctional Law**—Harvey S. Perlman and Thomas B. Alington, Eds.—Univ. of Neb. Press, 1969, 241 p., \$7.95. Deals with the double challenge of developing programs for improving prisons and deterring the potential criminal.

**THE TIGER: Its Life in the Wild**—George B. Schaller and Millicent E. Selsam—Harper, 1969, 72 p., photographs, drawings, maps, \$4.95. This is a young people's version of the zoologist's study of the behavior of tigers in Kanha Park, a nature reserve in India.

**TOWARD THE YEAR 2000: Work in Progress**—Daniel Bell, Ed.—Beacon Press, 1969, 410 p., diagrams, paper, \$2.95. Reprint of essays first published in the 1967 summer issue of Daedalus, with new essay on violence by James Q. Wilson.

**TRANSMISSION LINES FOR DIGITAL AND COMMUNICATION NETWORKS: An Introduction to Transmission Lines, High-frequency and High-speed Pulse Characteristics and Applications**—Richard E. Matick—McGraw-Hill, 1969, 360 p., diagrams, \$14.50. Reference volume covering basic concepts and all the relevant information including recent advances such as skin effect, superconducting lines, and directional coupling effects.

**UNDERSTANDING MAPS: Charting the Land, Sea and Sky**—Beulah Tannenbaum and Myra Stillman—McGraw-Hill, 1969, rev. ed., 159 p., photographs, illus. by Adolph E. Brotman, \$5.95. Information about all kinds of maps, from making the measurements on land to charting the sky, with simple experiments related to the science of map-making.

**VISITORS FROM AFAR: The Comets**—Willy Ley—McGraw-Hill, 1969, 143 p., photographs, diagrams by author, \$4.50. Popular discussion of the nature, orbits and composition of comets, comet families and individual comets.

**VISTAS IN SCIENCE**—David L. Arm, Ed.—Univ. of New Mexico Press, 1968, 256 p., illus., \$5.95. Articles based on seminar designed to discuss basic research across the spectrum of Air Force interests, topics range from recent advances in glass science and arc jets to biological sensors and organic fluorine chemistry.

**WEATHER MODIFICATION: Science and Public Policy**—Robert G. Fleagle, Ed.—Univ. of Wash. Press, 1969, 147 p., photographs, diagrams, \$7.95. Analysis by scholars of the problems and possibilities of man's deliberate intervention with his environment through such small-scale projects as fog dispersal or such large-scale programs as hurricane steering.

**WORK AND HUMAN BEHAVIOR**—Walter S. Neff—Atherton Press, 1968, 280 p., \$8.50. A research-based exploration of the process of human work, the manner in which a non-working child becomes a working adult, how the ability to work becomes impaired, how it is affected by the surrounding culture, and how work maladjustment of individuals can be assessed and treated.

## TEXTBOOKS

**APPLIED ANIMAL NUTRITION: The Use of Feedstuffs in the Formulation of Livestock Rations**—E. W. Crampton and L. E. Harris—Freeman, 1969, 2nd ed., 753 p., illus., \$12. Text covers both the theory of nutrition and its application to animal feeding. Revision uses the new system of feed names of the National Research Council, lists nutritive ingredients of approximately 1,000 feeds, and throughout book quantitative data are expressed in metric units.

**EXPLORING MODERN PHYSICS**—Alexander Efron—Hayden Bk. Co., 1968, 855 p., illus., \$7.90. A high school text designed to attract and hold the student and motivate him to a more intensive study of physics.

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**FOUNDATIONS OF MODERN PHYSICS**—Paul A. Tipler—Worth Pubs., 1969, 527 p., illus., \$11.50. Intended for use in a one-semester course for physics, chemistry, mathematics and engineering majors who had two semesters of elementary physics and two or more semesters of calculus.

**INTRODUCTION TO MODERN PHYSICS**—C. H. Blanchard and others—Prentice-Hall, 1969, 2nd ed., 498 p., illus., \$9.95. Textbook presents the qualitative ideas and the simpler quantitative results of microscopic ("atomic") physics. Revision elaborates on some of the mathematical treatment of classical physics in order to present a more detailed quantum-mechanical analysis.

**A LABORATORY MANUAL FOR MODERN ORGANIC CHEMISTRY**—Gottfried Brieger—Harper, 1969, 223 p., illus., \$6.95. Designed for a two-semester course in organic chemistry, offering a choice among experiments of varying degrees of difficulty.

**MATHEMATICS: The Man-Made Universe**—Sherman K. Stein—Freeman, 1969, 2nd ed., 415 p., diagrams, \$8.25. An introduction to the spirit of mathematics. Revised text incorporates changes based on the experience of many users of the first edition and on research published since 1963.

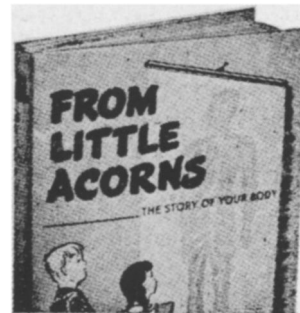
**MICROBIOLOGICAL APPLICATIONS: A Laboratory Manual in General Microbiology, Short Edition**—Harold J. Benson—Brown, Wm. C., 1969, 195 p., illus., paper, \$3.95. Abridged version, directed at personnel of the paramedical field.

**PHYSICS**—Samuel A. Marantz—Benzinger Bros., 1969, 773 p., illus., \$5.94. A high school introductory text designed to give the student an elementary understanding of the physicist's view of nature and of the methods he uses in exploring and comprehending the universe.

**SET THEORY AND ITS LOGIC**—Willard Van Orman Quine—Harvard Univ. Press, 1969, rev. ed., 361 p., \$7.95. Extensive revision of this introduction to abstract set theory made improvements throughout the book, from strengthened and simplified treatment of ordinal numbers to the reworking of proofs.

**THEORETICAL INORGANIC CHEMISTRY**—M. Clyde Day, Jr. and Joel Selbin—Reinhold, 1969, 2nd ed., 590 p., diagrams, \$12.95. Advanced undergraduate text with new treatment of coordination chemistry, new data on stereochemistry and added chapter discussing the solid state.

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