

# books OF THE WEEK

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**THE AGES OF LIFE**—Lorus J. Milne and Margery Milne—Harcourt, 1968, 331 p., illus., \$6.95. A stimulatingly fresh look at the effects of time on living things, the ways of growth, renewal and aging; vitality and mortality in cells, plants and animal species, including man.

**AN AMERICAN GENIUS: The Life of Ernest Orlando Lawrence**—Herbert Childs—Dutton, 1968, 576 p., photographs, \$12.95. Biography of the Nobel Prize winner who built the world's first cyclotron and was the founder of Berkeley's Radiation Laboratory, shows his influence on a generation of nuclear scientists.

**ATLAS OF PROTEIN SEQUENCE AND STRUCTURE, 1967-68**—Margaret O. Dayhoff and Richard V. Eck—Nat'l Biomedical Research Foundation, 1968, 356 p., diagrams, folded charts, paper, \$6 direct to publisher, P.O. Box 692, Silver Spring, Md. 20901. Deals with protein and nucleic acid sequences which are produced directly from sequence information in the genetic material.

**BIONICS**—Lucien Gerardin, transl. from French by Pat Priban—McGraw-Hill, 254 p., photographs, diagrams, paper, \$2.45. Deals with such varied topics as the study of turbulence in dolphins in order to improve the streamlining of submarines, the emission of cold light by organisms, and artificial intelligence.

**CAN WE WIN IN VIETNAM?**—Frank Armbruster, Herman Kahn and others—Praeger, 1968, 427 p., maps, \$7.95. A team of Hudson Institute analysts debate political-military questions of strategy, based on studies originally undertaken for U.S. government agencies.

**CHEMICAL BONDING AND STRUCTURE**—Ernest Griswold—Raytheon Education Co., 1968, 124 p., diagrams, paper, \$1.95. Provides interested undergraduate students with a compact and coherent introduction to current views on chemical bonding and molecular structure as related to the electronic structure of the atom.

**CHEMICAL EQUILIBRIUM**—Carl J. Nyman and Randall E. Hamm—Raytheon Education Co., 1968, 117 p., diagrams, paper, \$1.95. Brief supplementary text for students, deals with several types of equilibria in some depth, using mass and charge balances to solve problems.

**CITIES ARE PEOPLE**—S. Carl Hirsch—Viking Press, 1968, 176 p., photographs, \$4.95. Introduces young people to city planning and problems in the United States.

**CLINICAL DIABETES MELLITUS**—John Malins—Eyre & Spottiswoode (Barnes & Noble), 1968, 502 p., illus., \$19. Presents a picture of the vast variety of the disease as seen by a physician doing concentrated work in one of the largest clinics in Britain, examining during 25 years more than 12,000 newly diagnosed cases.

**CURRENT TRANSFORMERS: Their Transient and Steady State Performance**—Arthur Wright—Chapman & Hall (Barnes & Noble), 1968, 224 p., diagrams, \$8. Treatment used is largely analytical and based on simplified magnetization characteristics, intended to explain the principles and illustrate the behavior of all current transformers under both transient and steady-state conditions.

**THE DEVELOPMENT OF POLITICAL ATTITUDES IN CHILDREN**—Robert D. Hess and Judith V. Torney—Aldine Pub. Co., 1967, 288 p., illus., \$9.75. Result of a study of 12,000 elementary school children in eight large and medium-sized U.S. cities; evaluates the influences that develop and transmit political attitudes and awareness in children.

**THE DISCOVERY OF THE ELEMENTS**—Willy Ley—Delacorte Press, 1968, 215 p., \$4.95. Discusses the chronological discovery of the 103 known chemical elements, useful appendixes include alphabetical list of names giving derivations, atomic tables by families of elements, and bibliography.

## LEARN MODERN MATH!

Stumped by references to cybernetics, game theory? Confused by relativity? Brilliant new book by remarkable expositor makes these & other important new fields crystal-clear to laymen, students. "Great Ideas of Modern Mathematics." J. Singh, 213pp. \$1.75 + 10¢ postage. Money-back guarantee. Dept. SNL, Dover, 180 Varick St., New York, N.Y. 10014

**DORLAND'S POCKET MEDICAL DICTIONARY**—Bernard D. Davis, Victor A. McKusick and Ronan O'Rahilly, Consultants—Saunders, 1968, 21st ed., 699 p., 16 color plates, \$5.75. Abridged from latest updated edition of Dorland's Illustrated Medical Dictionary.

**A FIELD GUIDE TO THE MAMMALS OF BRITAIN AND EUROPE**—F. H. van den Brink, transl. from Dutch and edited by Hans Kruuk and H. N. Southern—Houghton, 1968, 221 p., plates, illus. by Paul Barreul, maps, \$7.50. Uses the Peterson system of identification, with more than 200 species illustrated, 164 in color; shows tracks and other marks; features 134 carefully drawn range maps.

**THE FINNS AND THEIR COUNTRY**—Wendy Hall—Eriksson, 1968, 224 p., photographs, map, \$5.95. A friendly and very readable survey of the modern emergence of Finland.

**FUNDAMENTALS OF ELECTRICITY**—Kennard C. Graham—Am. Technical Soc., 1968, 5th ed., 312 p., 325 illus., \$5.50. Addressing the average reader, this book explains clearly the application of basic principles, includes new chapters on solid state devices and electronic computers.

**THE HIGHER LEARNING IN AMERICA: A Reassessment**—Paul Woodring—McGraw-Hill, 1968, 236 p., \$6.95. Thoughtful discussion of the institutions of higher learning, their styles, prestige and educational quality; deals with the six million students of a new and different generation; the faculty, administrators and other aspects of academic life; and considers the problems and offers proposals for dealing with them.

**AN INTRODUCTION TO THE MEANING AND STRUCTURE OF PHYSICS**—Leon N. Cooper—Harper, 1968, 747 p., illus., \$13.95. Addressed to the intelligent layman, this elementary introduction to physics puts emphasis on the elegance, consistency and esthetic wholeness of the new physics. Includes review questions and problems.

**THE ISLAND OF PUERTO RICO**—J. David Bowen—Lippincott, 1968, 136 p., photographs, map, \$3.25. Portrait of the Commonwealth in the Caribbean and its people.

**JOURNAL OF THE HISTORY OF BIOLOGY, Vol. 1, No. 1, Spring 1968**—Everett Mendelsohn, Ed.—Harvard Univ. Press, 161 p., paper, \$4.50; semiannual publication, subscription \$7.50 a year. Features articles on the history of the biological sciences, with special attention to biology in the last half century.

**MANUAL OF OUTDOOR INTERPRETATION**—Joseph J. Shomon, Ed.—National Audubon Soc., 1968, 104 p., photographs, paper, \$3. Offers suggestions to the active conservationist to help him interpret the meaning of nature to others.

**MECHANICAL DESIGN OF SMALL PRECISION MECHANISMS**—Howard Jarmy—Chilton Bk. Co., 1968, 120 p., illus., \$5.95. Reference book concerned with the demands of precision engineering, alignment of members, elimination of backlash or play, and avoidance of deflections or movements due to any number of conditions found in computation and control mechanism.

**MEN, MACHINES AND MODERN TIMES**—Elting E. Morison—M.I.T. Press, 1968, 235 p., paper, \$1.95. Reprint (1966), looks from an historian's perspective on man's problems as he faces the computer age and automation.

**MILITARY AND CIVILIAN PYROTECHNICS**—Herbert Ellern—Chemical Pub. Co., 1968, 464 p., photograph, \$15. Comprehensive treatment of the properties and production of pyrotechnic materials, heat and light production, aerosols, energy and noise. Includes manufacturing formulary, glossary, list of government specifications and reference section.

**MODERN ELECTRONIC CIRCUIT DESIGN**—James D. Long—McGraw-Hill, 1968, 286 p., diagrams, \$12.50. Written for those who would design circuits as an occupation, who need to develop judgement in choosing the optimum circuit design among multiple possible solutions.

**MODERN MICROSCOPY or Seeing the Very Small**—V. E. Cosslett—Cornell Univ. Press, 1968, 160 p., 32 plates, paper, \$1.95. Reprint (1966), based on the 131st Royal Institution Christmas Lectures, brought up-to-date in respect to the rapid progress in electron microscopy and field-ion microscopy between 1960 and 1965.

**ON ESCALATION: Metaphors and Scenarios**—Herman Kahn—Penguin Bks., 1968, rev. ed., 308

p., paper, \$1.65. Includes author's new foreword, commenting on how his views have changed since the original publication in 1965.

**A PLACE IN THE SUN: Ecology and the Living World**—Lois and Louis Darling—Morrow, 1968, 128 p., illus. by Lois and Louis Darling, photographs, \$3.95. Explains the ecological relationships at work, taking the actual New England fields and woods surrounding the authors' home as demonstration.

**RADIO CONTROL MANUAL: Systems, Circuits, Construction**—Edward L. Safford, Jr.—TAB Bks., 1968, 192 p., illus., paper, \$3.95. Completely updated and revised, oriented toward the radio-controlled model hobbyist.

**THE ROLE OF PSYCHIATRY IN LAW**—Manfred S. Guttmacher, M.D.—Thomas, C.C., 1968, 170 p., \$7.50. Thoughtful discussion of the role of psychiatry in the criminal process, based on the experience of 30 years' service as medical officer to criminal courts.

**THE SILENT WEAPONS**—Robin Clarke—McKay, 1968, 270 p., \$4.95. Brings together information known to specialists and presents in readable form to the layman the results of research and development in products of chemical and biological warfare, their potential effect, impact and the ethical questions involved. Includes tables on specific agents.

**SOURCEBOOK OF ELECTRONIC CIRCUITS**—John Markus—McGraw-Hill, 1968, 888 p., diagrams, \$18.50. More than 3,000 modern electronic circuits complete with values of all parts, organized in 100 logical chapters for quick reference. Includes comprehensive index.

**SOURCES FOR THE HISTORY OF THE SCIENCE OF STEEL, 1532-1786**—Cyril Stanley Smith, Ed.—M.I.T. Press, 1968, 357 p., illus., \$12. A collection of sources for the materials student and student of the history of science, revealing to the general reader the importance of continuing contact between science and the complex real world of the workshop.

**SPACE SYSTEMS TECHNOLOGY**—Regis D. Heitchue, Jr., Ed.—Reinhold, 1968, 300 p., diagrams, \$15. Offers a concise source of information on propulsion, electrical power, flight control, structures, communications and life support with major emphasis on physical fundamentals.

**THAILAND TODAY: A Visit to Modern Siam**—Valentin Chu—Crowell, 1968, 200 p., 48 p. color photographs, drawings, map, \$7.95. A vivid portrait of the national character of an oriental country which was never colonized by any European power.

**TOTAL POSITIVITY, Vol. I**—Samuel Karlin—Stanford Univ. Press, 1968, 576 p., \$17.50. This first of two volumes concentrates primarily on developing the analytic structure of totally positive functions, from a survey of the theory of totally positive kernels to functions of differential operators.

**TRAFFIC FLOW THEORY AND CONTROL**—Donald R. Drew—McGraw-Hill, 1968, 467 p., diagrams, \$13.75. Presents traffic engineering as the science to cope with the man-machine-road system, and provides practicing traffic engineers with an insight into contemporary traffic research approaches.

**THE UNCERTAIN NERVOUS SYSTEM**—B. Delisle Burns—Edward Arnold (Williams & Wilkins), 1968, 194 p., \$11.50. Monograph stresses the interdisciplinary nature of central neurophysiology, and is concerned mainly with relevant contemporary research in physiology, experimental psychology, applied mathematics and electronic engineering.

## How to Argue and Win!



Here is a clear simply written basic guide to logical thinking, showing how to spot the fallacies, the prejudices and emotionalism, the inappropriate analogies, etc., in the other fellow's argument and how to watch for and avoid the irrational in your own judgments. The author makes plain not only *how* but also *why* people resist facing the truth.

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