

# books OF THE WEEK

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**ANTHROPOLOGISTS IN THE FIELD**—D. G. Jongmans and P. C. W. Gutkind, Eds.—Humanities Press, 1967, 277 p., \$9.75. A series of lectures by anthropologists recently returned from the field, giving an account of how their research was done, of the difficulties encountered, and of their dealings with authorities and interpreters.

**APOLLO IN THE DEMOCRACY**: The Cultural Obligation of the Architect—Walter Gropius—McGraw-Hill, 1968, 182 p., photographs, drawings, \$12.50. Collection of articles and lectures examining the state of contemporary architecture and exploring what the architect can do to improve the disjointed patterns of our cities.

**ART AND THE YOUNG CHILD**—Kenneth Jameson, foreword by George Kaye—Viking Press, 1968, 156 p., photographs, \$6.95. An examination in depth of the drawing and painting of four- to seven-year-olds, analyzed for possible patterns and for their value to the emotional life of the child.

**THE ARTIFICIAL INSEMINATION OF FARM ANIMALS**—Enos J. Perry, Ed.—Rutgers Univ. Press, 1968, 4th rev. ed., 473 p., illus., \$10. Updated and authoritative source on artificial breeding of cattle, horses, sheep, swine, dogs and honeybees.

**THE ATMOSPHERES OF VENUS AND MARS**—John C. Brandt and Michael B. McElroy, Eds.—Gordon & Breach, 1968, 288 p., illus., \$15. Summary review and conference papers reporting on progress in the physical exploration of Venus and Mars. Symposium was held in Tucson in 1967, sponsored by the Goddard Institute for Space Studies and the Space Division, Kitt Peak National Observatory.

**ATOMS AND ELEMENTS**: A Study of Theories of Matter in England in the Nineteenth Century—David M. Knight—Hillary House, 1968, 167 p., \$4.50. A study of the changing positions of physicists and chemists prior to their agreement on a common explanation of atomic theory.

**CHEMICAL WARFARE**: A Study in Restraints—Frederic J. Brown—Princeton Univ. Press, 1968, 355 p., \$9. Critical analysis of the nature of restraints—political, military, economic and psychological—which were operative in varying degrees between 1915 and 1945, when U.S. chemical warfare policy was being formed.

**COMPUTERS AND THE CHANGING WORLD**: A Theme for the Automation Age—John Hargreaves—Hillary House Pubs., 1968, 163 p., photographs, \$4.50. Discusses the scientific and commercial applications of computers, their impact on management and employment, and implications for the future.

**THE CULTURAL HISTORY OF MARLBOROUGH, VIRGINIA**: An Archaeological and Historical Investigation—C. Malcolm Watkins—Smithsonian Institution Press (GPO), 1968, 224 p., illus., maps, \$3.75. Detailed study of the foundations, excavations and finds on the plantation of John Mercer.

**THE DOLPHIN, COUSIN TO MAN**—Robert Stenuit—Sterling, 1968, 176 p., color plates, photographs, diagrams, \$4.95. Deep-sea diving oceanographer gives a lively account of the air-breathing submarine mammals, their lore and relation to man, including recent research and experiments.

**FIFTY YEARS OF COMMUNISM**: Theory and Practice, 1917-1967—G. F. Hudson—Basic Bks., 1968, 234 p., \$5.95. A specialist on Soviet affairs traces the intricate development of Communism, in both theory and practice, from the writings of Marx and Engels to the application of doctrine in the 20th century by Lenin, Stalin, Khrushchev, Mao Tse-tung and Castro.

**HUMMINGBIRDS AND THEIR FLOWERS**—

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Karen A. Grant and Verne Grant—Columbia Univ. Press, 1968, 115 p., 30 color plates, \$17.50. Describes hummingbird pollination as a process on the basis of observations in western North America carried out by the authors over many years. Written for professional botanists, ornithologists, ecologists and evolutionary biologists, including amateur naturalists.

**IN THE WAKE OF TORREY CANYON**—Richard Petrow—McKay, 256 p., photographs, maps, \$5.95. A journalist's probe into the how and why of the grounded oil tanker with its disastrous effects on seabirds and polluted beaches.

**JEWS AND INTERMARRIAGE**: A Study in Personality and Culture—Louis A. Berman—Yosef (A. S. Barnes), 1968, 707 p., \$12. An analysis of the dynamics of cross-ethnic marriage. The author is a psychologist and counselor at an urban university.

**THE KILLERS**—Daniel P. Mannix—Dutton, 1968, 255 p., illus., by George Ford, \$5.95. Tells the story of a life-long duel between a fighting cock and a wild hawk on a Pennsylvania farm, describing the growth, maturity and way of life of each of these powerful birds.

**THE MATHEMATICAL SCIENCES**: Undergraduate Education—Panel on Undergraduate Education in Mathematics of the Committee on Support of Research in the Mathematical Sciences of the National Research Council, John G. Kemeny, Chmn.—NAS, 1968, 113 p., paper, \$4.25. Report presents case histories, discusses goals, staffing and special areas of concern, and makes recommendations.

**NATIVE SHRUBS OF THE SAN FRANCISCO BAY REGION**—Roxana S. Ferris—Univ. of Calif. Press, 1968, 82 p., color plates, drawings, map, \$1.75. Descriptive list of shrubs with check list for field observations.

**ON THE COLOR TV SERVICE BENCH**—Jay Shane—Tab Bks., 1968, 192 p., diagrams, \$6.95; paper, \$4.95. Tells the technician how to tackle specific problems in a professional way.

**THE ORIGINS AND GROWTH OF ARCHAEOLOGY**—Glyn Daniel—Crowell, 1968, 298 p., 44 plates, \$8.95. Anthology of extracts from works showing the way in which this particular discipline has come into existence and how it has grown.

**RECOMMENDED DIETARY ALLOWANCES**: A Report—Food and Nutrition Board, National Research Council—NAS, 1968, 7th ed., 110 p., paper, \$1.75. Revision has added category for 18- to 22-year-olds, separate tabulation of allowances for infants under one year of age, and additional nutrients tabulated include phosphorus, iodine, magnesium, vitamin B-6 and B-12, vitamin E and folic acid.

**RELIGIOUS ATTITUDES OF JAPANESE MEN**: A Sociological Survey—Fernando M. Basabe with Anzai Shin and Federico Lanzaco—Sophia Univ., Tokyo (Tuttle), 1968, 135 p., \$7.65. Monograph presents the results of a survey carried out in the major cities of Japan on the religious attitudes of adult Japanese men in their twenties and thirties.

**RESEARCH AND DEVELOPMENT IN INDUSTRY, 1966**—National Science Foundation—GPO, 1968, 134 p., paper, \$1.25. Final report on a survey of R & D funds, 1966, and employment of R & D scientists and engineers, January 1967.

**SEX CHROMOSOMES AND SEX-LINKED GENES**—Susumu Ohno—Springer Verlag, N.Y., 1967, 192 p., photomicrographs, drawings, \$9.50. Monograph follows the development of sex chromosomes during vertebrate evolution from an originally homologous pair of ordinary chromosomes, tracing the evolutionary origin of sex-linked genes and the chromosomal sex-determining mechanism.

**THE THEORY OF ROTATING FLUIDS**—H. P. Greenspan—Cambridge Univ. Press, 1968, 327 p., plates, diagrams, \$15. The mathematical development in this monograph focuses on fundamental principles as revealed through the systematic study of simply constructed experiments. Includes chapter on non-linear processes and methods of solution.

**VANISHING PEOPLES OF THE EARTH**—Robert L. Breedon, Ed., foreword by Leonard Carmichael—National Geographic Soc., 1968, 207 p., 187 photographs in color, \$4.55 direct to pub-

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## TEXTBOOKS

**BIOLOGICAL SCIENCE**: An Inquiry into Life—John A. Moore and others—BSCS (Harcourt), 1968, 2nd ed., 840 p., illus., \$5.70; with correlated student laboratory guide, \$6; separate guide \$1.95. A complete revision of the 1963 yellow version, incorporates many changes based on the experience of teachers and critical appraisals by committees appointed by biological societies.

**THE CALCULUS OF OBSERVATIONS**: An Introduction to Numerical Analysis—Sir Edmund Whittaker and G. Robinson—Dover, 1967, 4th ed., 397 p., paper, \$2.75. Unabridged republication of 1944 edition, presents methods developed through years of teaching undergraduate courses in numerical analysis.

**FLUID MECHANICS FOR CIVIL ENGINEERS**—N. B. Webber—Spon Ltd. (Barnes & Noble), 1968, 340 p., 19 plates, diagrams, \$11; paper \$6. Text primarily concerned with the civil engineering aspect of fluid mechanics, reprint (1965) includes up-to-date references for further reading.

**FOUNDATION ANALYSIS AND DESIGN**—Joseph E. Bowles—McGraw-Hill, 1968, 659 p., illus., \$16.50. Text intended to deal with the currently accepted theories and practices, presents material on both the soils engineering and structural design aspects of various types of structures, emphasizing throughout the science aspect of foundation design.

**GALACTIC ASTRONOMY**—Dimitri Mihalas with Paul McRae Routly—Freeman, 1968, 257 p., diagrams, \$10. Text is mathematical in its approach, brings together the results of galactic research in a unified account of man's knowledge about the Milky Way system.

**HANDBOOK OF HUMAN EMBRYOLOGY**—R. W. Haines and A. Mohiuddin—Livingstone (Williams & Wilkins), 1968, 4th ed., 232 p., illus., paper, \$5.75. A concise aid for medical students.

**INSECT PHYSIOLOGY**—Sir Vincent B. Wigglesworth—Methuen (Barnes & Noble), 1968, rev. ed., 134 p., drawings, \$3.50; paper, \$1.75. Offers student a lucid outline of the main features of insect physiology, incorporating an account of all the major new developments.

**INTRODUCTION TO ANALYSIS**—Bernard Kripke—Freeman, 1968, 274 p., diagrams, \$8.50. Text is the outgrowth of a course taught in the fourth semester of an honors sequence in calculus, addressing itself to the transition from calculus to modern abstract analysis.

**MAGNETISM AND MAGNETIC MATERIALS**—J. C. Anderson—Chapman & Hall (Barnes & Noble), 1968, 248 p., diagrams, \$8. Provides a fundamental treatment of the subject, intended principally for electrical engineers and physicists, suitable for advanced undergraduates or postgraduates embarking on research in some branch of magnetism.

**POLAROGRAPHY**—D. R. Crow and J. V. Westwood—Methuen (Barnes & Noble), 1968, 174 p., diagrams, \$5. Stresses the essentials of polarography in a form the undergraduate student can grasp and use.

# Handbook of Knots & Splices

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