

# books OF THE WEEK

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**CHILDREN UNDER STRESS**—Sula Wolff—Penguin Press, 1969, 249 p., \$6.95. Clinical psychiatrist discusses how normal children face the stresses of growing up, some of the more common sources of trouble, and what methods can be used to prevent disturbances in children exposed to unusual stresses.

**CONSTITUTION OF BINARY ALLOYS, SECOND SUPPLEMENT**—Francis A. Shunk—McGraw-Hill, 1969, 720 p., diagrams, \$37.50. Concerned primarily with data of the period 1962-64, presents reviews of 1,702 binary systems, from silver-aluminum to zinc-zirconium.

**COWLES ENCYCLOPEDIA OF SCIENCE, INDUSTRY AND TECHNOLOGY**—Robert J. Feldman, Mng. Ed.—Cowles Bk. Co., 1969, new enlarged ed., 639 p., 500 illus., charts, glossaries, \$17.50. Coverage ranges from history of science to waxes and zinc, articles are prepared by 160 experts and indexed under 10,000 entries. Up-to-date bibliographies included.

**DESIGN FOR SCIENTIFIC CONSERVATION OF ANTIQUITIES**—R. M. Organ—Smithsonian Inst. Press (Random House), 1969, 497 p., illus., \$16. Suggests technical procedures to be followed by museum personnel in authenticating, preserving and studying archaeological objects.

**DISCOVERY IN THE PHYSICAL SCIENCES**—Richard J. Blackwell—Univ. of Notre Dame Press, 1969, 240 p., \$8.50. Discusses types of discovery, levels of explanation and elaboration of structures in an attempt to analyze the process of scientific discovery.

**DRUGS AND THE BRAIN: Papers on the Action, Use and Abuse of Psychotropic Agents**—Perry Black, Ed.—Johns Hopkins Press, 1969, 403 p., illus., \$10. Research findings arranged in groups under such headings as psychochemotherapy, memory enhancers, LSD, alcoholism, and drug abuse.

**ECLIPSE PHENOMENA IN ASTRONOMY**—F. Link—Springer-Verlag, 1969, 271 p., illus., \$19.50. With emphasis on the part played by the eclipsing body, the work deals independently with lunar eclipses, eclipses of artificial satellites, twilight phenomena, occultation by other planets, transits of planets over the sun, eclipse phenomena in radio astronomy, and Einstein's deflection of light.

**THE ECONOMICS OF LABOR FORCE PARTICIPATION**—William G. Bowen and T. Aldrich Finegan—Princeton Univ. Press, 1969, 897 p., \$18.50. Detailed and comprehensive analysis of the factors that determine who is in the U.S. labor force, assesses characteristics of working men and women, younger and older persons, and which people are not working or seeking work, and why.

**EDUCATORS GUIDE TO FREE FILMS**—Mary Foley Horkheimer and John W. Diffor, Eds.—Educators Progress Service, 1969, 29th ed., 798 p., \$10.75. Up-to-date cyclopedic list arranged under subject headings, with title, subject and source index.

**THE ENVIRONMENT MONTHLY**—William Houseman, Ed.—The Environment Monthly, 1969, 12 p., illus., paper, monthly, \$35 per year, direct to publisher, 420 Lexington Ave., New York, N.Y. 10017. Reports to professionals—builders, bankers, politicians, behavioral scientists and conservationists—on what is happening in the field of environmental design.

**THE ENVIRONMENT OF CHANGE**—Aaron W. Warner, Dean Morse and Thomas E. Cooney, Eds.—Columbia Univ. Press, 1969, 186 p., \$7.50. These papers and discussions concerned with the impact of science and technology on society represent proceedings of two conferences sponsored by TIME magazine.

**ENZYMIC CATALYSIS**—John Westley—Harper, 1969, 206 p., diagrams, paper, \$5.95. Conceived as an aid to graduate students in biochemistry and allied fields, the book gives concise account of enzymic catalysis from a phenomenological point of view.

**EXPLORING OUR NATIONAL PARKS AND MONUMENTS**—Devereux Butcher—Houghton, 1969, 6th rev. ed., 370 p., 300 photographs, \$8.95. A guidebook that also gives background to the evolution of the park system.

**FAMILY PLANNING IN TAIWAN: An Experiment in Social Change**—Ronald Freedman and John Y. Takeshita—Princeton Univ. Press, 1969, 501 p., \$15. Study presents detailed data and evaluates effects of large-scale, systematically administered and successful family planning program which was started in Taichung, provincial capital of Taiwan, in 1963.

**FAMILY-PLANNING PROGRAMS: An International Survey**—Bernard Berelson, Ed.—Basic Bks., 1969, 310 p., \$7.95. An up-to-date survey of national and international birth control programs by 26 of the world's leading population experts, with emphasis on the developing countries.

**FIELDS AND PARTICLES: Field Theory and Dispersion Relations**—K. Nishijima—Benjamin, 1969, 465 p., \$20; paper, \$6.95. Written as an introduction to field theory, the book gives examples that clarify the complementary relationship between the customary field theory approach and the S-matrix theory.

**FISSION DAMAGE IN CRYSTALS**—Lewis T. Chadderton and Ian McC. Torrens—Methuen (Barnes & Noble), 1969, 265 p., plates, diagrams, \$13.50. Describes, from both experimental and theoretical standpoints the damaging processes which occur in the solid state when single crystals are bombarded with energetic fission fragments or fast charged ions.

**FOOD IN ANTIQUITY: A Survey of the Diet of Early Peoples**—Don and Patricia Brothwell—Praeger, 1969, 248 p., 67 photographs, illus., maps, \$8.50. A comparative study of human diet in ancient and primitive societies, piecing together the evidence from biological research in archaeology.

**THE FUTURE OF THE FUTURE**—John McHale—Braziller, 1969, 322 p., photographs, diagrams, \$7.95. The author, a sociologist and world resources analyst, concerns himself with the balance of the whole global ecology, the consequences of the explosive growth of the human species, its increased scale of activities and their by-products.

**GENETICS AND COUNSELING IN MEDICAL PRACTICE**—Leonard E. Reisman and Adam P. Matheny—Mosby, 1969, 215 p., illus., \$12.75. Provides a broad coverage of information on what is known medically about genetic disorders, intended to help the family physician deal with questions about birth defects and mental retardation.

**GENETICS AND DEVELOPMENTAL BIOLOGY**—Howard J. Teas, Ed.—Univ. of Ky. Press, 1969, 165 p., illus., \$6.50. Symposium honoring Nobelist Thomas Hunt Morgan, reflects the transition and interrelationship of the classical and the molecular approach to biology, contributions range from work on nonrandom segregation of sister chromatids to replication of chromosomal DNA.

**HANDBOOK OF NUMERICAL INVERSION OF LAPLACE TRANSFORMS**—V. I. Krylov and N. S. Skoblyva, transl. from Russian—IPST (Daniel Davey), 293 p., \$10. Part One deals with methods utilizing the numerical Fourier transform and with methods based on special expansions, Part Two presents numerical tables.

**HARVESTING THE CLOUDS: Advances in Weather Modification**—Louis J. Battan—Doubleday, 1969, 148 p., 19 plates, paper, \$1.45. A Science Study Series book published in collaboration with the American Meteorological Society.

**IMAGE PROCESSING IN BIOLOGICAL SCIENCE: Proceedings of UCLA Conference, 1966**—Diane M. Ramsey, Ed.—Univ. of Calif. Press, 1969, 251 p., illus., \$17. Papers and discussion of work in such areas of biological and computer science as automatic screening in cytogenetics, differentiation of white blood cells, automation of chromosome analysis, and digital video data handling.

**INNOVATION IN MASS EDUCATION**—David Street, Ed.—Wiley, 1969, 342 p., \$9.95. Research reports on changes in teacher training, in inner-city schools, school-community relations and policy implications for urban education.

**KINETICS OF REACTIONS IN IONIC SYSTEMS**—T. J. Gray and V. D. Frechette—Plenum Press, 1969, 571 p., illus., \$27.50. Symposium papers on such special topics in ceramics as the kinetics of the thermal decomposition of solids, and behavior of oxygen in oxides during sintering.

**LIVING IN SPACE: The Astronaut and His Environment**—Mitchell R. Sharpe—Doubleday, 1969, 192 p., photographs, diagrams, \$5.95; paper, \$2.45. Explains the conditions of space, the ef-

fects on the body of acceleration, noise, zero-gravity, lack of oxygen, and describes the life-supporting equipment and the telemetry that links astronauts with monitoring doctors on earth.

**THE PATTERN OF VERTEBRATE EVOLUTION**—L. B. Halstead—Freeman, 1969, 209 p., illus., \$7. Outlines the way the vertebrates might have evolved by describing the earliest known fossils and the early evolution of bone and dentine. In following the later fossil record, the book is mainly concerned with the reasons behind the changes that took place as the major types evolved.

**PLEASURE FROM INSECTS**—Michael Tweedie—Taplinger, 1969, 170 p., photographs by author, illus. by Joyce Bee, \$5.95. For the hobbyist-photographer and student-entomologist, book tells how to look at butterflies, moths and beetles, how to attract them, keep them and photograph them.

**THE SEARCH FOR AN ABORTIONIST**—Nancy Howell Lee—Univ. of Chi. Press, 1969, 207 p., \$7.50. Detailed empirical study of a whole range of factors gathered from 114 American women who had undergone abortion, with emphasis on the communication networks used by these women to arrange for their own abortions.

**SIMPLE WORKING MODELS OF HISTORIC MACHINES** (easily made by the reader)—Aubrey F. Birstall—M.I.T. Press, 1969, 80 p., drawings, \$3.95. Intended for those who like to experiment and make things work, describes working models of ancient machine tools, lifting, pumping and blowing devices, and apparatus for working temple doors.

**SURVIVAL AND THE BOMB: Methods of Civil Defense**—Eugene P. Wigner, Ed.—Indiana Univ. Press, 1969, 307 p., illus., \$7.50. Discusses the physical, economic and human factors related to the protection of people against the effects of nuclear war, assesses the problems of civil defense, its methods and limitations, and outlines a program of preparedness.

**THE TASK OF GESTALT PSYCHOLOGY**—Wolfgang Kohler, intro. by Carroll C. Pratt—Princeton Univ. Press, 1969, 164 p., illus., \$6.50. Lectures on early and more recent developments in Gestalt psychology, the close relationships of this theory to ideas in physics and biology, and to problem-solving.

**TECHNOLOGICAL FORECASTING AND LONG-RANGE PLANNING**—Robert U. Ayres—McGraw-Hill, 1969, 237 p., diagrams, \$12.50. A readable assessment of the dynamics of technological change and future trends, covering specific procedures forecasters and companies can follow to predict which spheres of technology will be of major concern to them in the future.

**TIDAL FLAT SEDIMENTATION ON THE COLORADO RIVER DELTA**, Northwestern Gulf of California—Robert Wayne Thompson—Geological Soc. of Am., 1968, 133 p., illus., \$9.50. Records the detailed examination of intertidal deposits accumulated in an arid climate at a semi-enclosed basin where tidal range is great.

**TRAVELLERS GUIDE TO YUGOSLAVIA: Slovenia, Croatia and Bosnia-Herzegovina, including the Dalmatian Coast**—Sylvie Nickels—Bobbs-Merrill, 1969, 361 p., photographs, maps, excursion charts, \$5.95. Practical information for the tourist, historical and cultural background, and principal routes for travel in the country.

**UNDER SCOTT'S COMMAND: Lashly's Antarctic Diaries**—A. R. Ellis, Ed.; intro. by Sir Vivian Fuchs—Taplinger, 1969, 160 p., photographs, map, \$4.75. A historical record of daring and dedicated men written by the Chief Petty Officer of the tragic polar party in 1912.

**UNIVERSE, EARTH AND ATOM: The Story of Physics**—Alan E. Nourse, M.D.—Harper, 1969, 688 p., diagrams, \$10. Seeks to give a broad, general understanding of the world of modern physics and the work of physicists, how they know what they know, what they are still trying to find out, and what their discoveries mean to us, both today and in the future.

**VENOMOUS REPTILES**—Sherman A. Minton, Jr. and Madge Rutherford Minton—Scribner, 1969, 274 p., photographs, \$7.95. Offers a summary of scientific knowledge about poisonous snakes and lizards, about the properties, lethal qualities and uses of snakes, including the authors' own research, tables, references, glossary and bibliography.

**THE WHITE POPPY: A History of Opium**—J. M. Scott—Funk & Wagnalls, 1969, 205 p., illus., \$5.95. In non-technical language the book examines the influence on men's minds, on medicine and crime of the many compounds derived from the opium poppy plant.