

# books OF THE WEEK

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**ABYSS: The Deep Sea and the Creatures That Live in It**—C. P. Idyll, introd. by Athelstan Spilhaus—Crowell, 1971, rev. ed., 428 p., photographs, drawings, \$7.95. Marine scientist describes for the general reader the ecology of the land beneath the sea, with its mountains and valleys, and the many grotesque forms of life that inhabit it.

**ANNUAL REVIEW OF ECOLOGY AND SYSTEMATICS, Vol. 2**—Richard F. Johnston, Peter W. Frank and Charles D. Michener, Eds.—Annual Reviews, 1971, 510 p., illus., \$10. Contains articles on such varied topics as the effects of a stationary economy, soils as components of ecosystems, the sacred in human evolution, ecological calorimetry, principles of clustering, and seed predation by animals.

**ANTARCTIC OCEANOLOGY I**—Joseph L. Reid, Ed.—Am. Geophysical Union, 1971, 343 p., photographs, drawings, \$22. Includes studies on the topography, magnetics and seismicity of ocean floor, circulation of water masses, planktonic zonation, characteristics of water columns, ferromanganese deposits, and analysis of data from cores.

**ASTHMA AND HAY FEVER**—Oscar Swineford, Jr., M.D.—Thomas, C. C., 1971, 484 p., tables, \$19.50. A series of essays on asthma discussing on the professional level the experimental background from which clinical procedures were derived, critical analyses of our knowledge of asthma, common errors in current practices, and suggestions for remedial research.

**BEYOND CONCEPTION: Our Children's Children**—Martha Kent Willing—Gambit, 1971, 241 p., diagrams, \$6.95. Well written exposition of the issues and causes of the present population problem, with fresh formulation of ideas and methods for new directions.

**THE BIOLOGICAL REVOLUTION: A Background Book on Making a New World**—Corinne Jacker—Parents' Mag. Press, 1971, 266 p., illus., \$4.95. Provides younger readers with a compact survey of the new biological discoveries, their history, benefits and ethical problems. Appendices explain structure of amino acids, protein molecules and cell. Glossary included.

**BLACK'S MEDICAL DICTIONARY**—William A. R. Thomson, M.D.—Barnes & Noble, 1971, 29th ed., 1006 p., 24 plates, 356 drawings, \$9. Extensively revised, with new sections on carpal tunnel syndrome, cyclamates, drug addiction, galactosemia, and rewritten sections including coronary thrombosis, insecticides and leukemia.

**CHEMICAL MODIFICATION OF PROTEINS**—Gary E. Means and Robert E. Feeney—Holden-Day, 1971, 254 p., diagrams, \$12.50; paper, \$6.95. Describes chemical methods used to determine the roles of the individual amino acid side chains in the chemical, physical and biological properties of proteins. The chemistry and reactions of each reagent are described in detail.

**DNA COMPLEX AND ADAPTIVE BEHAVIOR**—John Gaito—Prentice-Hall, 1971, 120 p., diagrams, \$6.50. Attempts to discuss some of the interesting research, theories, and problems of the past decade within molecular psychobiology, and suggests the possibility of developing a type of chemotherapy called DNA Complex therapy, after describing some of the related developments in molecular biology.

**DIRECTORY OF ENGINEERING SOCIETIES and Related Organizations**—Jean A. Gregory, Ed.—Engineers Jt. Council, 1970, 6th ed., 252 p., paper, \$8. Basic information on 318 national, regional, state and local organizations, including new section devoted to international societies.

**THE ELEPHANT MAN: A Study in Human Dignity**—Ashley Montagu—Outerbridge & Dienstfrey (Dutton), 1971, 140 p., photographs, \$5.95. A study of personality development based on a single case study of a severely deformed and outwardly repulsive man who nevertheless emerged from workhouse and circus exploitations as a gentle and dignified human being.

**EMPATHY AND BIRTH ORDER: Some Experimental Explorations**—Ezra Scotland, Stanley E. Sherman and others—Univ. of Neb. Press, 1971, 197 p., tables, \$8.50. Systematic, large-scale investigation of empathy, focuses on birth order as a primary determinant of which interpersonal and motivational conditions will lead a person to empathize with the emotions of another.

**EXPLANATION IN ARCHEOLOGY: An Explicitly Scientific Approach**—Patty Jo Watson, Steven A. LeBlanc and Charles L. Redman—Columbia Univ Press, 1971, 191 p., diagrams, \$6. Presents a coherent synthesis of a logical structure of an explicitly scientific archeology, and discusses systems theory and ecological approach, methods and the archeological record.

**HOW TO MAKE PEOPLE LISTEN TO YOU**—Dominick A. Barbara, M.D.—Thomas, C. C., 1971, 180 p., \$6.75. Practicing psychoanalyst discusses the all too general habit of poor listening, tells how a parent who listens poorly may hinder the child's psychological growth, how to listen with a purpose, and how to make others want to listen to you.

**ION TRANSPORT AND MEMBRANES: A Biophysical Outline**—A. B. Hope—Univ. Park Press, 1971, 121 p., illus., \$7.50. Deals with some aspects of the relations between ions and living cells, the thermodynamics of ion migration, experiments with non-living membranes, active and passive transport, electric resistance and conductance of cell membranes, and ion fluxes.

**LIVES THROUGH TIME**—Jack Block with Norma Haan—Bancroft Bks., 1971, 313 p., \$12.50. Systematic and integrated assessment of personality development in a longitudinal study involving some 170 men and women providing data on family context variables, behavioral observations, automatic reactivity, body build, occupational histories, maternal responses, and much more.

**THE LOGIC OF SCIENCE IN SOCIOLOGY**—Walter Wallace—Aldine-Atherton, 1971, 139 p., diagrams, \$6; paper, \$3.95. A systematic, well-documented, yet brief treatment of the abstract form or "logic" of science as applied to scientific sociology—observations, measurement, sample and parameter estimation, empirical generalization, concept formation, theories, hypotheses and tests.

**THE MEASUREMENT OF TIME-VARYING PHENOMENA: Fundamentals and Applications**—Edward B. Magrab and Donald S. Blomquist—Wiley-Interscience, 1971, 347 p., diagrams, \$16.95. Individual topics covered are analysis of signals, filters, amplifiers, voltage detectors, recorders, signal generators, and digital systems, components and techniques.

**MODERN COSMOLOGY**—D. W. Sciama—Cambridge Univ. Press, 1971, 212 p., plates, diagrams, \$8.95. Describes the major components of the universe as they are known today: the stars, galaxies, radio-galaxies and quasi-stellar objects. Discusses models of the universe, the red shift, and cosmic microwave radiation.

**THE NATURE OF BALL LIGHTNING**—Stanley Singer—Plenum Press, 1971, 178 p., illus., \$12.50. Presents a correlation of all the published information on ball lightning, both theoretical and practical, from the prescientific era through 1969, including some results of investigations not yet published.

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**THE NORTH MEXICAN FRONTIER: Readings in Archaeology, Ethnohistory and Ethnography**—Basil C. Hedrick, J. Charles Kelley and Carroll L. Riley—Southern Ill. Univ. Press, 1971, 255 p., map, \$10. Designed to provide specialists in the field with a source of essays and studies illustrating the cultures and civilizations of Northwest Mexico.

**PHOTOSYNTHESIS AND PHOTORESPIRATION: Conference Proceedings, Canberra, 1970**—M. D. Hatch, C. B. Osmond and R. O. Slatyer, Eds.—Wiley-Interscience, 1971, 565 p., illus., \$19. Papers and discussion summaries of advances in the field of environment, adaptation and evolution in relation to photosynthetic and photorespiratory gas exchange; carbon dioxide assimilation; chloroplast structure and function; and photorespiration and the role of microbodies.

**PSYCHIATRIC DISORDERS OF CHILDREN WITH CONGENITAL RUBELLA**—Stella Chess, Sam J. Korn and Paulina B. Fernandez—Brunner/Mazel, 1971, 178 p., tables, \$7.50. Detailed study of the behavioral consequences of congenital rubella in a large group of children, their physical impairment and psychiatric status, assessing intellectual development, levels of functioning, the autistic child, and temperament.

**A QUESTION OF MADNESS**—Zhores A. Medvedev and Roy A. Medvedev, transl. from Russian by Ellen de Kadt—Knopf, 1971, 223 p., \$5.95. A tale of absorbing interest, relates with scientific precision and some humor how the Soviet biochemist was committed to a mental hospital, diagnosed a schizophrenic by a Soviet psychiatric committee, and finally released thanks to the extraordinary efforts of his twin brother and members of the scientific community.

**SOYBEANS AS A FOOD SOURCE**—W. J. Wolf and J. C. Cowan—CRC Press, 1971, 86 p., illus., \$11.50. Provides comprehensive summary of the conversion of soybeans to food, discusses seed structure and composition, production, the techniques of processing soybeans into oil and meal, and food uses of soybean proteins.

**THE STRUCTURE OF THE EARTH**—Sydney P. Clark, Jr.—Prentice-Hall, 1971, 132 p., illus., maps, \$6.50; paper, \$2.75. Nonmathematical treatment, introduces the reader to the nature of the earth's internal strata, its surface, characteristics, magnetic field, plate tectonics, seismology, gravity field, and heat flow.

**SYNTHETIC FOOD**—Magnus Pyke—St. Martin's, 1971, 145 p., diagrams, \$6.95. A discussion of existing synthetic processes, followed by detailed individual treatment of the synthesis of protein, fat, carbohydrate, vitamins, alcohol, flavors, odors, colors, and synthetic nonfoods.

**THERMODYNAMIC THEORY OF STRUCTURE, STABILITY AND FLUCTUATIONS**—P. Glansdorff and I. Prigogine—Wiley-Interscience, 1971, 306 p., diagrams, \$15.50. The aim of this monograph is to present a macroscopic theory covering a large range of phenomena starting from equilibrium and including nonlinear situations, convection and instabilities, thus achieving unified treatment of both thermodynamic and hydrodynamic aspects.

**TREATMENT OF THE HYPERLIPIDEMIC STATES**—Herman Richard Casdorff, Ed., foreword by William B. Kannel; preface by Irvine H. Page—Thomas, C. C., 1971, 434 p., illus., \$31.75. Provides authoritative and comprehensive coverage, from a review of lipid metabolism, and the newest methods of classification, to treatment through diet, pharmacological agents used, and surgery.

**ZAKROS: The discovery of a Lost Palace of Ancient Crete**—Nicholas Platon—Scribner, 1971, 345 p., 100 color plates and photographs, maps, \$19.95. Describes for the first time the discovery and excavation of unlooted palace with about 250 rooms built in 1600 B.C. on the eastern coast of Crete.