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ANNUAL REVIEW OF ECOLOGY AND SYSTEMATICS, Vol. 3—Richard F. Johnston, Peter W. Frank and Charles D. Michener, Eds.—Annual Reviews, 1972, 520 p., diagrams, \$10. Articles cover research ranging from olfactory communication in animals, niche theory, altruism in social insects, to cultural evolution of civilizations, and communications stress.

BENEATH THE SEA OF THE WEST INDIES: Caribbean, Bahamas, Florida, Bermuda—Hans W. Hannah and Bernd H. Mock—Hastings, 1973, 104 p., 175 color photographs, \$4.95. Identifies the colorful life forms that can be observed by divers in the clear warm waters of the coral canyons, and discusses the ecology of the reef, and marine archeology in the West Indies.

BORN TO SING: An Interpretation and World Survey of Bird Song—Charles Hartshorne—Indiana U Pr, 1973, 304 p., illus., \$10. A global study of the patterns and esthetics of bird song. Philosopher-ornithologist analyzes collected data from 50 years of observation, comparing, describing and measuring song, evaluating well-equipped, superior and less well-equipped singers; including worldwide statistical sample of quality and quantity, spectrograms and notations of songs.

CODING PROCESSES IN HUMAN MEMORY—Arthur W. Melton and Edwin Martin, Eds.—Winston (Halsted Pr), 1972, 448 p., diagrams, \$12.95. Research papers on such topics as the question of overloading memory, stimulus encoding in learning and transfer, characteristics of word encoding, and analyses of unusual individual memories.

THE GRANTS REGISTER 1973-1975—Roland Turner, Ed.—St. Martin, 1973, 685 p., \$17.50. Primarily for students at or above the graduate level, describes a total of 1,927 sources of scholarships, exchange opportunities, grants-in-aid, competitions and awards, of regional, national and international origin, tenable at home and/or abroad.

ATHEROSCLEROSIS A Primer for Scientists

This Primer provides a rapid introduction to a large body of research on arteriosclerosis—the nation's arch-villain. It is a self-teaching tool (for science-oriented readers) that drives home current ideas and results bearing on the question: What is going on in and around the artery wall? Experimental techniques are described, and care is taken to explain and to use technical vocabulary. Over 90 references to the 1972-73 literature alone. \$2.00 ppd.

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HANDBOOK OF VITAMINS AND HORMONES—Roman J. Kutsy—Van Nostrand Reinhold, 1973, 278 p., \$13.50. Makes easily available unitary, basic information on the properties and modes of action of both the vitamins and the hormones, and their interrelationships to each other as metabolic controlling agents.

HIERARCHY THEORY: The Challenge of Complex Systems—Howard H. Pattee, Ed.—Braziller, 1973, 156 p., \$6.95; paper, \$2.95. Explores the organization of complex systems, hierarchical control programs in biological development, the physical basis of hierarchical control, and the limits of complexity.

INTRODUCTION TO DATA PROCESSING—Martin L. Harris and Nancy B. Stern—Wiley, 1973, 326 p., illus., paper, \$3.95. A self-teaching guide, explains what data processing is, how it is organized, types of equipment used, and how a particular data processing system is designed.

MATHEMATICS IN A CHANGING WORLD—Michael Holt and D. T. E. Marjoram—Walker & Co., 1973, 293 p., photographs, diagrams, \$10. Addressed to the intelligent layman, the book discusses selected topics showing how mathematicians think and what they think about—models in science, the mathematics of mind, economy, maps, geography and population.

THE NATURE AND NURTURE OF BEHAVIOR: Developmental Psychobiology—William T. Greenough, Ed.—W. H. Freeman 1973, 143 p., 140 illus., \$7; paper, \$2.95. Readings from **SCIENTIFIC AMERICAN** in the areas of prenatal development of the newborn, critical events in the shaping of basic systems, and environmental determinants of complex behavior.

THE NEW YORK TIMES GUIDE TO CONTINUING EDUCATION IN AMERICA—College Entrance Examination Board; Frances Coombs Thomson, Ed.—Quadrangle, 1973, 816 p., paper, \$4.95. Describes the opportunities available to adult students at accredited educational institutions. Lists 2280 institutions and describes the academic and vocational, traditional and new course programs they offer.

ORTHOMOLECULAR PSYCHIATRY: Treatment of Schizophrenia—David Hawkins and Linus Pauling, Eds.—W. H. Freeman, 1973, 697 p., diagrams, tables, \$17. Thirteen articles, written by medical and scientific authorities, explain the theory, clinical research and the application of orthomolecular psychiatry, a method of treatment based on the guiding principle that the mind's functioning is dependent on the nutritional and chemical state of the brain.

THE POWER OF PLAY—Frank and Theresa Caplan—Doubleday, 1973, 334 p., photographs, \$7.95. The founders of "Creative Playthings" examine play as a body- and personality-building activity, its role in mental and social development, and influence on national cultures. Discusses the ideas of some pioneering pedagogues, psychologists and toy designers.

THE PRINCIPLES OF INSECT PHYSIOLOGY—V. B. Wigglesworth—Chapman (Halsted Pr), 1973, 7th ed., 827 p., 412 illus., \$23. Reference volume incorporates the main advances of the past seven years; detailed indexing of topics under each genus makes it possible to refer to all the major work done on a given insect.

RELIGION, ALTERED STATES OF CONSCIOUSNESS AND SOCIAL CHANGE—Erika Bourguignon, Ed.—Ohio State U Pr, 1973, 389 p., illus., \$12.50. Cross-cultural, comparative research ranges from Sub-Saharan Africa to modern São Paulo, and from the Apostolics of Yucatan to the fundamentalist Shakers of St. Vincent in the West Indies.

SCIENTIFIC THOUGHT: Some Underlying Concepts, Methods and Procedures—UNESCO Pubns, 1972, 252 p., \$15. Collection of articles by eminent scientists addressing themselves to evolving ideas on sets, structure, symmetry, sign language, information, optimization, game theory and meta-theory.

SEA TURTLES: Natural History and Conservation—Robert Bustard—Taplinger, 1973, 220 p., 24 plates, drawings, maps, \$11.95. A scholarly examination of the biology, classification, evolution and adaptation of sea turtles, with up-to-date survey of the seven living species.

SMOKING BEHAVIOR: Motives and Incentives—William L. Dunn, Jr., Ed.—Winston (Wiley), 1973, 322 p., diagrams, tables, \$9.95. Contributions by behavioral scientists address themselves to the issue that, despite a decade of dissuasion, 35% of the American adults continue to seek gratification in smoking.

SOUND WITH VISION: Sound Techniques for Television and Film—E. G. M. Alkin—Crane-Russak Co, 1973, 283 p., 12 plates, diagrams, \$20.75. Makes available methods developed by the BBC concerning the art and craft of sound operation in association with television picture production.

STALKING THE WILD TABOO—Garrett Hardin—W Kaufmann, 1973, 226 p., \$8.95. Essays concerned with improving the quality of life by clarifying some of the contemporary taboos that interfere with the rational evaluation of such topics as abortion, religion, technology and competition.

THE SUN AND THE AMATEUR ASTRONOMER—W. M. Baxter—Drake, 1973, 165 p., photographs, drawings by author, \$6.95. Provides general information on the sun in space, its physical aspects, visible appearance, radiation and spectrum; discusses the amateur's tools for observing and recording—telescope, spectroscope, spectroheliograph and solar photography.

SYNTHETIC GEM AND ALLIED CRYSTAL MANUFACTURE—Daniel MacInnes—Noyes Data Corp, 1973, 221 p., diagrams, \$24. Detailed and practical information based on 112 patent-based processes covering corundum, asteriated gems, rutile, titanates, garnets, miscellaneous crystals, G. E. and other diamond syntheses.

TECHNIQUES OF NUCLEIC ACID FRACTIONATION—S. R. Ayad with J. Blamire—Wiley, 1972, 234 p., photographs, diagrams, \$14.95. Describes the biochemical and biophysical properties of nucleic acids, because they determine the particular technique to be used, then proceeds in detail with fractionation techniques, together with their various biological applications.

TURTLES OF THE UNITED STATES—Carl H. Ernst and Roger W. Barbour—U Pr of Ky, 1973, 347 p., 24 color plates, 223 photographs, drawings, maps, \$22.50. Comprehensive source of current knowledge concerning the life histories of the 49 species of turtles native to the U.S. and Canada.

WHO SPEAKS FOR EARTH? Barbara Ward, Lord Zuckerman and others; Maurice F. Strong, Ed.—Norton, 1973, 173 p., \$6.95. Includes seven lectures on the major issues of the global environment, given at the Stockholm Conference in 1972.

THE WORK OF THE SCIENCE FILM MAKER—Alex Strasser, preface by Sir Arthur Elton—Hastings House, 1973, 308 p., photographs, diagrams, \$17.50. Producer and director of scientific and technical films discusses the medium and the image, special techniques, describes actual films in the making, and film-making procedure.

YESTERDAY'S CHILDREN: A Longitudinal Study of Children from Kindergarten into the Adult Years—Philip E. Kraus—Wiley, 1973, 192 p., tables, \$9.95. Study follows closely 165 children from middle and low socio-economic areas—black, white, Hispanic and Oriental—in search of cause and effect relationships in student development and achievement.