

# books OF THE WEEK

**ANNUAL REVIEW OF ECOLOGY AND SYSTEMATICS**, Vol. 1—Richard F. Johnston, Peter W. Frank and Charles D. Michener, Eds.—Annual Reviews, 1970, 406 p., illus., \$10. Topics range from statistical plant ecology, contemporary systematic philosophies, and high temperature systems, to refuging, dominance in human societies, and mesozoic mammalian evolution.

**THE AUK, THE DODO AND THE ORYX: Vanished and Vanishing Creatures**—Robert Silverberg—Crowell, 1970, 246 p., illus. by Jacques Hnizdovsky, paper, \$1.65. Reprint (1967), tells the story of some of the nearly extinct species.

**AUSTRALIAN SPIDERS IN COLOUR**—Ramon Mascord—Tuttle, 1970, 112 p., 198 color photographs by author, \$6.75. Extraordinary close-up photographs with informative description of groups and species.

**BEASTLY INVENTIONS: A Surprising Investigation into how Smart Animals Really Are**—Jean Craighead George—McKay, 1971, 216 p., illus. by author, \$6.95. Gives a lively account of the extraordinary inventiveness within the animal kingdom by describing the ingenious ways in which some species have adapted to their environment.

**BIOCHEMICAL COEVOLUTION: Proceedings of the 1968 Biology Colloquium**—Kenton L. Chambers, Ed.—Ore. State Univ. Press, 1970, 117 p., illus., \$5. Examines selected examples of reciprocal effect between groups of organisms through an evolutionary response to their biochemical products, thus revealing the complexity of interspecies relationships within the ecosystem.

**INDUSTRIAL RESEARCH LABORATORIES OF THE UNITED STATES**, 13th Edition—Jacques Cattell Press, Eds.—Bowker, R. R., 1970, 659 p., \$39.50. Presents information on 5,237 non-governmental laboratories and their subsidiaries, devoted to fundamental and applied research, including organizations engaged in social and behavioral research. Contains also subject index to the main research activities of each laboratory.

**MOLECULAR BASIS OF ODOR**—John E. Amoore—Thomas, C. C., 1970, 200 p., illus., \$16.50. After giving anatomical and physiological background, the book explains stereochemical theory, experimental facts of aroma specificity, and the author's methods of assessing molecular shape and classifying odor sensation by the study of inborn deficiencies.

**MOLECULAR BIOLOGY AND THE ORIGIN OF SPECIES: Heterosis, Protein Polymorphism and Animal Breeding**—Clyde Manwell and C. M. Ann Baker—Univ. of Wash. Press, 1970, 394 p., illus., \$10.50. Attempts to produce an integrated view of evolution at a molecular level with emphasis on the formation of races and species, including such subjects as population genetics, biochemical taxonomy, subunit structure of proteins, and allosteric effects.

**1971 YEARBOOK OF ASTRONOMY**—Patrick Moore, Ed.—Norton, 1971, 194 p., illus., \$4.95. Contains monthly star charts, topical notes for the year, positions of the planets, eclipses, occupations, comets and meteors, as well as feature articles.

**PLANT AGRICULTURE: Readings from SCIENTIFIC AMERICAN**—Jules Janick and others, Eds.—Freeman, 1970, 246 p., photographs, diagrams, maps, \$10, paper, \$4.95. Arranged in five parts: agricultural beginnings, plant growth and development, plant environment, production technology, and food needs and potential.

**PRINCIPLES AND TECHNIQUES OF ELECTRON MICROSCOPY: Biological Applications**, Vol. 1—M. Arif Hayat—Van Nostrand Reinhold, 1970, 412 p., illus., \$19.50. Discusses in detail the chemistry of the interaction of various reagents with cellular substances to give a better understanding of the electron micrograph process, reflects major advances in the field and points out improved techniques.

**QUEEN OF SHEBA'S HEIRS: Cultural Patterns of Ethiopia**—Edith Lord—Acropolis Bks., 1970, 320 p., photographs, maps, \$12.50. Designed to interpret the ways of Ethiopians to the foreigner. Includes essays on customs written by Ethiopians of different ethnic groups, informative tables and discussion of names and their meaning, samples of spoken Amharic, historical dates, and bibliography.

**SOCIAL SPECULATIONS: Visions for Our Time**—Richard Kostelanetz, Ed.—Morrow, 1971, 306 p., \$7.50. An anthology of innovative and imaginative ideas concerning historical and biological developments, technologies and communication, environments and cities.

**THE THRICE SHY: Cultural Accommodation to Blindness and Other Disasters in a Mexican Community**—John L. Gwaltney—Columbia Univ. Press, 1970, 219 p., illus., \$6.95. Anthropological field study of a Mexican village located in a zone where blindness due to onchocerciasis caused by parasitic roundworms is widespread. Research is recorded by author who is blind himself.

**THE URBANIZATION OF THE EARTH**—Jorge Arango, introd. by Jose Luis Sert—Beacon Press, 1971, 175 p., illus., \$6.95. Addresses itself to the inevitability of global urbanization. Proposes a modular concept (PLUS for Pan-urban Land Use System), to help transform industrialized man's urban environment in harmony with the laws of nature and the needs of men.

**VIDEO TAPE PRODUCTION & COMMUNICATION TECHNIQUES**—Joel Lawrence Efrein—TAB Bks., 1970, 255 p., illus., \$12.95. A practical guide to operation of basic TV equipment and to the organization of material for presentation.

**VITAMIN C AND THE COMMON COLD**—Linus Pauling—Freeman, 1970, 122 p., \$3.95; paper, \$1.95. Nobelist describes the properties of ascorbic acid, the variability of individual biochemistry, and why he believes that large doses of vitamin C are desirable for optimum health in adult human beings and would reduce the incidence of the common cold.

**WATER POLLUTION in the Greater New York Area**—Alan A. Johnson, Ed., foreword by John V. Lindsay—Gordon & Breach, 1970, 211 p., illus., \$12.50. Symposium papers and discussion on the physical aspects of New York bight and estuaries, their chemical nature, biological indicators of pollution, and engineering aspects of water quality maintenance.

## TEXTBOOKS

**ADVENTURES IN EARTH HISTORY**—Selected, edited, with introduction by Prestor Cloud—Freeman, 1970, 992 p., illus., \$17.50; paper, \$8.95. A volume of significant writings from original sources on cosmology, geology, climatology, oceanography, organic evolution and related topics of interest to students of earth history.

**ALLERGY OF THE NERVOUS SYSTEM**—Frederic Speer, M.D., Ed.—Thomas, C. C., 1970, 259 p., illus., \$13.25. Text deals with the history of allergy of the nervous system, neurologic and psychic syndromes, allergic headache, neuroallergic reactions to drugs and other etiologic factors, allergic diagnosis and treatment.

**THE BIOLOGY OF LICHENS**—Mason E. Hale, Jr.—E. Arnold (Am. Elsevier Pub. Co.), 1970, 176 p., plates, diagrams, \$7.50. Intermediate text in lichenology, between the semi-popular treatment and the encyclopedic professional level.

**THE CHEMISTRY OF MATTER**—James B. Pierce—Houghton, 1970, 799 p., illus., \$10.50. Introductory chemistry text, attempts to bridge information gap between high school and college work to allow the talented, but poorly prepared, student to compete with those who have received a sound background.

**DUKES' PHYSIOLOGY OF DOMESTIC ANIMALS**—Melvin J. Swenson, Ed.—Cornell Univ. Press, 1970, 8th ed., 1463 p., illus., \$19.50. Entirely rewritten, contains 16 new chapters, and greatly expanded sections on the cardiovascular, digestive and nervous systems.

**EARTH AND SPACE SCIENCE**—Caleb Wroe Wolfe and others—Heath, 1971, 2nd ed., 630 p., illus., \$7.92. Revised edition of text retains the comprehensive treatment of oceanography, meteorology and astronomy, but integrates them more closely with the study of geology in order to emphasize the unity of the study of the whole earth system.

**INTRODUCTION TO FUNGI**—John Webster—Cambridge Univ. Press, 1971, 424 p., photographs, drawings, \$10.50. Textbook of mycology, aimed at encouraging field work. Most major groups except the Myxomycetes emphasize the more important groups; the Fungi Imperfecti are treated as conidial states of Asco- and Basidio-mycetes.


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