

# books OF THE WEEK

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**THE ATLANTIC FLYWAY**—Robert Elman—Winchester Pr, 1973, 203 p., 60 color plates, photographs, drawings, maps, \$15. A book for both hunter and birdwatcher, portrays one of the world's great migratory corridors used by millions of ducks, geese and swans in their annual migrations along the wetlands of the Atlantic seaboard.

**BUCKY: A Guided Tour of Buckminster Fuller**—Hugh Kenner—Morrow, 1973, 338 p., photographs, diagrams by B. Fuller, \$7.95. Biography attempts to give a sense of the man—mathematician and engineer, inventor of the Dymaxion, synergetic construction, geodesic domes, poet, and interpreter of the universe and the function of man's mind.

**THE CHEMIST'S COMPANION: A Handbook of Practical Data, Techniques and References**—Arnold J. Gordon and Richard A. Ford—Wiley-Interscience, 1973, 11x9, 537 p., diagrams, tables, \$14.95. Single source of data on properties of molecular systems, atoms and bonds, kinetics and energetics, spectroscopy, photochemistry, chromatography, experimental techniques, mathematical and numerical information.

**COGNITION IN LEARNING AND MEMORY**—Lee W. Gregg, Ed.—Wiley, 1972, 263 p., diagrams, \$12.95. Papers cover current research in serial learning, the dynamics of memory storage and retrieval, imagery of association learning, scaling of progress in learning, and the nature of semantic memory.

**A COURSE IN RADIO FUNDAMENTALS**—George Grammer—Am Radio Relay League, 1973, 182 p., diagrams, paper, \$2. Presents the electrical and electronic principles that are basic to understanding radio circuit operation.

**DESALTING SEAWATER: Achievements and Prospects**—Marion Clawson and Hans H. Landsberg—Gordon, 1972, 276 p., illus., \$15.55. Brings together reports and articles on such topics as successful large-scale desalting, a desert seacoast project, nuclear energy centers, prospects of desalted water costs, and the economics of desalted seawater for agriculture.

**ENGINEERING TABLES AND DATA**—A. M. Howatson, P. G. Lund and J. D. Todd—Chapman (Halsted Pr), 1973, 175 p., tables, diagrams, paper, \$6.50. Compacted collection of information, includes mathematical and statistical tables, materials data, tables for structural engineering and for fluid mechanics.

**FLUORIDES AND DENTAL CARIES: Contemporary Concepts for Practitioners and Students**—Ernest Newbrun, Ed., foreword by Yngve Ericsson—C C Thomas, 1972, 144 p., illus., \$9.50. Describes the results of studies of water fluoridation, fluoride dentifrices, fluoride metabolism, and fluoride toxicology.

**GEOLOGY OF THE MOON: A Stratigraphic View**—Thomas A. Mutch—Princeton U Pr, 1973, rev. ed., 391 p., photographs, drawings, tables, \$22.50. New edition reviews Apollo 11, 12, 14, 15 and 16 results, includes 40 new pages of text and 50 new illustrations, bringing up-to-date interpretations of representative areas of the moon's surface.

**A GIANT IN THE EARTH**—Robert Katz—Stein & Day, 1973, 262 p., \$8.95. A long essay on some of the social implications of the Green Revolution, its successes and political, economic and social consequences, its promises and possible ecological disturbances.

**GLOSSARY OF TERMS FREQUENTLY USED IN AIR POLLUTION**—Ralph E. Huschke, Ed.—Am Meteorological Soc, 1972, 38 p., paper, \$2. Thoroughly explains such terms as *actinic air*, *haze*, *photochemical smog*, and *visual range*.

**GLOSSARY OF TERMS FREQUENTLY USED IN WEATHER MODIFICATION**—Ralph E. Huschke, Ed.—Am Meteorological Soc, 1972, 62 p., paper, \$2. Explains terms ranging from *absolute instability* to *wind-break*.

**HOW YOU CAN GET BETTER MEDICAL CARE FOR LESS MONEY**—Morris N. Placere and Charles S. Marwick—Walker, 1973, 192 p., \$7.95. Writing under a pseudonym, practicing surgeon describes the kind of medical care middle-class Americans are now getting, why prices have sky-rocketed, and what the citizen can do for protection.

**THE INFLUENCE OF TEETH, DIET AND HABITS ON THE HUMAN FACE**—D. M. Davies—Heinemann (Crane-Russak Co), 1973, 158 p., plates, tables, \$8.75. Monograph deals with the effects of "natural" diets of primitive tribes on dental health and facial degeneration. Research is based on the study of skulls from the British Museum's collection of 14,000 specimens.

**INSECTS, FOOD AND ECOLOGY** (Formerly titled: *Insect Dietary*)—Charles T. Brues—Dover, 1972, 466 p., photographs, drawings, paper, \$4.50. Unabridged reprint of 1946 publication, deals with types of insect food habits and their relation to environment, gives specific accounts of vegetarian, gall-producing, predatory, parasitic, bloodsucking and entomophagous insect groups.

**AN INTRODUCTION TO RADIATION PROTECTION**—A. Martin and S. A. Harbison—Chapman (Halsted Pr), 1973, 216 p., illus., \$7.75; paper, \$4.75. Topics treated in detail include nuclear reactor health physics, radioactive waste disposal, X-rays and their applications and health physics in medicine.

**ION IMPLANTATION**—Fred H. Eisen and Lewis T. Chadderton, Eds.—Gordon, 1972, 465 p., photographs, diagrams, \$24.75. International conference papers range in subject matter from damage during implantation to applications in specific semiconductor devices and integrated circuits.

**LET THE ENTIRE COMMUNITY BECOME OUR UNIVERSITY**—Philip C. Ritterbush, Ed.—Acropolis, 1973, 226 p., illus., paper, \$3.95. Deals with the need and promise of off-campus study, summarizes actual experiences with applied study programs, undergraduate externships, and other innovations.

**LIFE BEFORE MAN: The Emergence of Man**—Eds. of Time-Life Books—Time-Life, 1973, 160 p. color plates, photographs, drawings, \$7.95. Describes the evolution of organisms covering some three billion years of life on earth, beginning with photosynthesis and ending with *Homo erectus*.

**THE LIVING OCEANS**—Alex Laurie—Doubleday, 1973, 187 p., color plates, photographs, drawings, diagrams, maps, \$6.95. Biologist describes the teeming life of seashore and ocean depths, shows how ocean currents affect this life, discusses continental shelves, and the nature of tides and waves.

**MAIZE ROUGH DWARF: A Planthopper Virus Disease Affecting Maize, Rice, Small Grains and Grasses**—Isaac Harpaz—Israel U Pr (Halsted Pr), 1972, 251 p., color plates, photomicrographs, diagrams, \$24. Summarizes research on the causative agents, the insect vectors, and the methods for control of a serious disease of maize found in a number of European countries.

**NATURAL GAS: A Study**—E. N. Tiratsoo—Scientific Pr (R. Fairbridge), 1972, 2nd ed., 416 p., 32 plates, diagrams, tables, \$18.50. Comprehensive study incorporates revised statistics and new developments in the geology, production, storage, transportation and application of natural gas.

**NATURAL HISTORY OF INFECTIOUS DISEASE**—Sir Macfarlane Burnet and David O. White—Cambridge U Pr, 1972, 4th ed., 278 p., illus., \$14.50; paper, \$3.95. Extensively updated and rewritten, in particular those chapters dealing with viruses, diseases associated with animal reservoirs, hospital infections, hepatitis, kuru and slow viruses.

**THE NEW AMERICAN CONTINENT: Our Continental Shelf**—Norman Carlisle—Lippincott, 1973, 95 p., photographs, drawings, \$4.95. For young people, describes the continental shelf and the research going on to discover more about it.

**PROTEINS: Structure and Function, Vols. 1 and 2**—M. Funatsu and others, Eds.—Kodansha (Wiley), 1973, 381 p., 270 p., illus., \$19, \$14.50. Contributions by leading Japanese researchers. Vol. 1 concerns hydrolytic enzymes whose primary structure is more or less completely known. Vol. 2 deals mainly with the mechanisms of action of various enzyme proteins, including the molecular regulation of their activities.

**SCIENCE FOR NON-SCIENTISTS: An Examination of Objectives and Constraints in the Presentation of Science to Non-specialists**—J. S. R. Goodlad—Oxford U Pr, 1973, 170 p., \$10.50. Analyzes the place of science in British culture by examining science education in primary and secondary education, science for non-specialists at universities, and science in television.

**SCIENCE FUNDAMENTALS: A Background for Household Equipment**—Louise J. Peet—Iowa St U Pr, 1972, 132 p., illus., tables, paper, \$3.50. Explains the physical and chemical properties of modern materials used in appliances, utensils and laundry aids, basic mechanics, heat, electricity, gas, household electronics, and pollutants.

**THE SOCIAL ANIMAL**—Elliot Aronson—W H Freeman, 1972, 324 p., illus. by Saul Steinberg, paper, \$3.50. A succinct and highly readable representation of social psychology, demonstrates how conventional wisdom is borne out, or refuted, by social psychological research.

**THE SOLAR SYSTEM**—Zdenek Kopal—Oxford U Pr, 1973, 152 p., photographs, diagrams, tables, \$6; paper, \$1.95. Summarizes for the non-technical reader the principal features of our present knowledge of the solar system as a whole, the major planets and their satellites, moon, asteroids, comets, meteoric dust, ending with an outline of the origin and evolution of the whole solar system.

**THIRTEEN: The Flight that Failed**—Henry S. F. Cooper, Jr.—Dial, 1973, 208 p., \$5.95. The absorbing story of the astronauts and the men in Mission Control Room who directed the technical intelligence and corrections involved in bringing the spacecraft and the astronauts safely home after one of Apollo 13's oxygen tanks had burst on the way to the moon.

**U.S. NUTRITION POLICIES IN THE SEVENTIES**—Jean Mayer, Ed.—W H Freeman, 1973, 256 p., \$7.95; paper, \$3.95. Concise summary and analysis of the main causes, effects and possible remedies for malnutrition in the United States. Addressed to layman, seeks to counteract the growing influence of non-nutritious food in the American diet.

**THE UNIVERSAL URGE: Courtship and Mating Among Animals**—J. H. Prince—Nelson, 160 p., photographs, diagrams, maps, \$5.95. Describes for the general reader the mating and breeding behavior of fish, amphibians, reptiles and birds, discusses how characteristics are inherited and how the environment affects reproduction.

**VIDEO RECORDING: Record and Replay Systems**—Gordon White—Crane-Russak Co, 1973, 208 p., illus., \$10.75. Technical book, describes the principles of video recording and discusses the various systems which are on the market or will soon make their appearance.