

# books OF THE WEEK

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**ANATOMY OF AN EXPEDITION**—Henry W. Menard—McGraw-Hill, 1969, 255 p., photographs, maps, \$6.95. A first-hand account tracing the recent oceanographic Nova Expedition, from its conception through the work at sea investigating the sea floor in the southwestern Pacific.

**BOSTON STUDIES IN THE PHILOSOPHY OF SCIENCE**, Vol. IV—Robert S. Cohen and Marx W. Wartofsky, Eds.—Humanities Press, 1969, 537 p., \$20. These 1966/68 Proceedings represent a wide range of interests, from issues in the philosophy of mind and of language, the neurophysiology of perceptual behavior, to interrelationships of the sciences with ethics and metaphysics.

**THE CANCER PROBLEM: A Critical Analysis and Modern Synthesis**—Armin C. Braun—Columbia Univ. Press, 1969, 218 p., illus., \$8.50. Presents a point of view evolved during a lifetime of plant tumor study, exploring the genetic, biochemical and developmental aspects of the basic cellular mechanisms responsible for tumor growth.

**ELECTRONIC CIRCUITS FOR THE BEHAVIORAL AND BIOMEDICAL SCIENCES: A Reference Book of Useful Solid-State Circuits**—Mitchell H. Zucker—Freeman, 1969, 241 p., illus., \$9.75. Introduces the behavioral or biomedical researcher to basic semiconductor circuit construction and testing.

**ELECTRONIC STRUCTURE AND CHEMICAL BINDING: With Special Reference to Inorganic Chemistry**—Oscar Knefler Rice—Dover, 1969, 511 p., illus., paper, \$3.75. Unabridged reprint (1940) with new preface.

**EVOLUTION OF THE VERTEBRATES: A History of the Backboned Animals through Time**—Edwin H. Colbert—Wiley, 1969, 2nd ed., 535 p., illus., \$12.95. Updated, concise presentation based on the fossil record, with short but comprehensive descriptions of characteristic animals in the various orders of vertebrates.

**THE HEPATICAE AND ANTHOCEROTAE OF NORTH AMERICA** East of the Hundredth Meridian, Vol. II—Rudolf M. Schuster—Columbia Univ. Press, 1969, 1062 p., 216 p. illus. mostly by author, \$20. Intended to serve as a fundamental basis for research in other regions of the world, each taxon is illustrated by numerous individual figures and particularly difficult species are analyzed in detail.

**THE HUMAN MIND: A Discussion at the Nobel Conference**, Gustavus Adolphus College, St. Peter, Minn., 1967—Sir John C. Eccles and others; John D. Roslansky, Ed.—Fleet Academic Eds., 1969, 164 p., \$6.95. Lectures deal with the subject from the perspective of evolution and the conscious self, human versus artificial intelligence, biochemical aspects of mental states, and molecular parameters in brain function.

**MAGNETIC DOMAINS**—R. S. Tebble—Methuen (Barnes & Noble), 1969, 98 p., plates, diagrams, \$4. Monograph on the structure and properties of magnetic domains, single domain particles and thin films.

**MAN, CLIMATE AND ARCHITECTURE**—B. Givoni—Am. Elsevier Pub. Co., 1969, 364 p., diagrams, \$14. Discusses the climatic elements, their physiological, sensory and biophysical influences; the thermophysical properties of materials and their effect on indoor climate; the impact of solar radiation and design; and ventilation problems.

**MENTAL HEALTH RESEARCH IN ASIA AND THE PACIFIC**—William Caudill and Tsung-Yi Lin, Eds.—East-West Center Press, 1969, 487 p., \$12.50. A cross-cultural inquiry probing the adaptation of Western psychiatric theories and techniques in Asian countries to further the understanding of the similarities and differences in the behavior of people in various cross-cultural settings.

**THE MOLECULAR BASIS OF MEMBRANE FUNCTION**—D. C. Tosteson, Ed.—Prentice-Hall, 1969, 598 p., diagrams, \$12. Contains papers delivered at 1968 Symposium, topics range from the chemical composition of biological membranes to the molecular basis of energy transformations in active transport across membrane functions.

**NARRATIVE OF A JOURNEY TO THE SHORES OF THE POLAR SEA** in the Years 1819, 20, 21 and 22—John Franklin—Tuttle, 1970, 768 p., color plates, folded maps, slip case, \$17.50. Included are appendices on auroral observations, geological, zoological and botanical finds.

**NEOPLASMS AND RELATED DISORDERS OF INVERTEBRATE AND LOWER VERTEBRATE ANIMALS**—Clyde J. Dawe and John C. Harshbarger Eds.—National Cancer Institute (GPO), 1969, 772 p., plates, diagrams, \$9. Symposium papers report on research with fishes, prevertebrates and echinoderms, insects, and invertebrates other than insects and echinoderms.

**THE NERVOUS SYSTEM**—Peter Nathan—Lippincott, 1969, 394 p., plates, drawings, \$7.95. Examines the nervous system from both the physical and psychological points of view, and explains how it affects such diverse areas as memory, behavior, sight, hearing, smell, balance, communication, symbolization, and learning.

**1001 QUESTIONS ANSWERED ABOUT EARTH SCIENCE**—Richard M. Pearl—Dodd, 1969, rev. ed., 327 p., photographs, drawings, \$6.50. Encompasses questions about geologic time, ancient invertebrates, glaciers, past climates, patterns of land and sea, and earthquakes.

**THE ORIGINAL AUSTRALIANS**—A. A. Abbie—Am. Elsevier Pub. Co., 1969, 288 p., photographs, maps, \$9. Documented work, covers the subject from the earliest known times to the present, deals with physical and mental characteristics, tribal customs and sexual behavior, artistic culture, diet and disease.

**POLITICS AND THE COMMUNITY OF SCIENCE**—Joseph Haberer—Van Nostrand Reinhold, 1969, 337 p., paper, \$5.50. Examines modern science in the light of fundamental and moral problems with which its rise to a major institution of western society has confronted modern man.

**PSYCHIATRY AND PHILOSOPHY**—Erwin W. Straus, Maurice Natanson and Henri Ey—Springer Verlag, N.Y., 1969, 161 p., \$8. Three essays re-examine the concepts upon which psychiatry was founded as a special branch of medicine more than 100 years ago.

**RADIOLOGY OF BONE DISEASES**—George B. Greenfield—Lippincott, 1969, 465 p., 772 photographs, \$34. A well-illustrated, unified volume of bone diseases grouped according to predominant roentgen features rather than etiology, presents analytical approach to the diagnosis of bone lesions.

**SOCIAL SECURITY IN INTERNATIONAL PERSPECTIVE: Essays in Honor of Eveline M. Burns**—Shirley Jenkins, Ed.—Columbia Univ. Press, 1969, 255 p., \$9. Reviews social security programs in the U.S., Canada, Denmark, Britain, France, and India, and suggests most promising alternatives for meeting national needs.

**THE TIDES: Pulse of the Earth**—Edward P. Clancy—Doubleday, 1969, 228 p., illus., paper, \$1.75. Explains what man knows about the tides, from Isaac Newton's law of gravity to today's computerized predictions of tidal phenomena.

**TOWARDS A BETTER USE OF THE OCEAN: Contemporary Legal Problems in Ocean Development**—W. T. Burke, with Comments and Recommendations by an International Symposium—Humanities Press, 1969, 231 p., \$9.50. A monograph of the Stockholm International Peace Research Institute.

**TRACE ELEMENTS IN AGRICULTURE**—Vincent Sauchelli—Van Nostrand Reinhold, 1969, 248 p., photographs, \$15. Comprehensively surveys the role of trace elements in the production of quality crops, in soil management systems and in the nutrition of plant and animal life.

**THE UNIQUENESS OF MAN: A Discussion at the Nobel Conference**, Gustavus Adolphus College, St. Peter, Minn., 1968—Theodosius Dobzhansky and others; John D. Roslansky, Ed.—Fleet Academic Eds., 1969, 189 p., illus., \$6.95. Lectures deal with the pattern of human evolution, the experiencing self, vitalism and organicism, and the evolution of human behavior.

**VISUAL THINKING**—Rudolf Arnheim—Univ. of Calif. Press, 1969, 345 p., illus., \$11.50. Intended for the general reader, describes problem-solving in the arts as well as imagery in the thought-models of science, shows perceptual response to the world as the basic means by which we structure events, ideas and language.

**THE VITAMINS IN HEALTH AND DISEASE: A Modern Reappraisal**—John Marks—Little, Brown, 1969, 183 p., photographs, diagrams, \$14.50. Critical review of the present state of knowledge concerning the nutritional significance of vitamins, deals in detail with individual vitamins, and discusses technical aspects of assays, tests and storage.

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