

# books OF THE WEEK

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**ABILITIES:** Their Structure, Growth and Action—Raymond B. Cattell—Houghton, 1971, 583 p., diagrams, tables, \$17.50. A major scientific treatment of human abilities, deals almost entirely with intelligence, deriving the structure of intelligence through the study and analysis of behavior. The author incorporates the concepts of fluid and crystallized intelligence in what he calls the *triadic theory*, namely: abilities, temperament traits and dynamic traits.

**AMINO ACID FORTIFICATION OF PROTEIN FOODS**—Nevin S. Scrimshaw and Aaron M. Altschul, Eds.—MIT Press, 1971, 664 p., diagrams, tables, \$25. International conference papers deal with the prospects for increased protein supplies, the experimental evidence for the value of amino acid fortification, criteria for evaluation, commercial aspects and alternate strategies for meeting human protein needs.

**ARCHAEOLOGY IN VERMONT:** Some Reviews Supplemented by Materials from New England and New York—John C. Huden, Ed.—Tuttle, 1971, rev. ed., 107 p., photographs, map, \$3.50. Monograph describes 14 archaeological sites.

**ARMY ANTS:** A Study in Social Organization—T. C. Schneirla; Howard R. Topoff, Ed.—Freeman, 1971, 349 p., color plates, photographs, diagrams, \$12. Posthumous volume, presents synthesis of the author's conclusions about the characteristic behavioral patterns of the army ants observed in their native habitat on Barro Colorado Island, Panama.

**THE CONDITIONS FOR SUCCESS IN TECHNOLOGICAL INNOVATION**—OECD's Committee for Science Policy—OECD, 1971, 169 p., tables, paper, \$4. The main focus of the report is technological innovation in response to industrial and individual needs, response to changing patterns of consumer requirements, and qualitative objectives of economic growth.

**CORONARY HEART DISEASE AND PHYSICAL FITNESS:** Proceedings of Symposium, 1970—O. Andrée Larsen and R. O. Malmberg, Eds.—Univ. Park Press, 1971, 277 p., diagrams, \$17.50. Lectures and discussions cover the physiological and metabolic adaptations to exercise and training in normal man and in patients with coronary heart disease.

**DECISION THEORY AND HUMAN BEHAVIOR**—Wayne Lee—Wiley, 1971, 352 p., diagrams, \$13.95. An introductory survey and evaluation of decision theory in psychology, the book emphasizes behavioral research, as in probability learning, choosing between gambles, utility, signal detection theory, and the concept of rationality.

**DRUGS OF ABUSE:** Their Genetic and Other Chronic Nonpsychiatric Hazards—Samuel S. Epstein, Ed.; Joshua Lederberg and others, Assoc. Eds.—MIT Press, 1971, 228 p., diagrams, tables, \$15. Reviews existing toxicological information on drugs of abuse, defines the many areas of ignorance, and indicates productive strategies for future research.

**AN EXPERIENCE WITH CELLS**—Darrel L. Murray and Howard E. Buhse—Addison-Wesley, 1971, 193 p., illus., paper, \$3.95. Laboratory manual, deals with cell physiology and biochemistry, beginning with experiments on the structure of the gene and ending with photosynthesis.

**GLACIER ICE**—Austin Post and Edward R. LaChapelle—Univ. of Wash. Press, 1971, 124 p., 11" x 14", 130 photographs, \$20. Uses aerial reconnaissance techniques to document the

extent and character of glacierization, patterns of change, and such features as glacier surges, ash layers, crevasses, ice fall, terminus, moraines, ogives and others. Glossary included.

**HUMAN TEACHING FOR HUMAN LEARNING:** An Introduction to Confluent Education—George Isaac Brown—Viking Press, 1971, 298 p., \$8.50. Derives from a report to the Ford Foundation, deals with techniques and approaches expressing the concept of "affective education," concern for the non-intellective side of learning having to do with emotions, feelings, values and character.

**INADVERTENT CLIMATE MODIFICATION:** Report of the Study of Man's Impact on Climate (SMIC)—Carroll L. Wilson, Chmn.—MIT Press, 1971, 308 p., diagrams, paper, \$2.95. Presents results of study by 30 of the world's leading atmospheric scientists examining the present and potential climatic effects of man's activities.

**MAGNETISM:** An Introductory Survey—E. W. Lee—Dover, 1970, 281 p., photographs, diagrams, paper, \$2.50. Reprint (1963), explains in layman's language the basic experiments and thought underlying much of the present understanding of the magnetic properties of matter.

**MAN, CULTURE AND SOCIETY**—Harry L. Shapiro, Ed.—Oxford Univ. Press, 1971, rev. ed., 456 p., illus., paper, \$3.50. These essays, first published in 1956, now include an overview of the relevance of environment and ecology to human culture, a fresh appraisal of the "Old Stone Age," and an account of the emergencies of civilization.

**MARKET POWER AND PRICE LEVELS IN THE ETHICAL DRUG INDUSTRY**—Hugh D. Walker—Indiana Univ. Prss, 1971, 257 p., tables \$6.75. Economist's thorough analysis of the drug industry's performance and the principal factors involved in the high cost of prescription drugs, includes proposals for alternative solutions.

**THE ORIGINS OF ABNORMAL BEHAVIOR**—Norman L. Corah and Elliot N. Gale, Eds.—Addison-Wesley, 1971, 448 p., paper, \$6.95. Collection of empirical studies on various aspects of the etiological factors—biological, sociocultural and psychological.

**THE OXFORD BOOK OF INVERTEBRATES:** Protozoa, Sponges, Coelenterates, Worms, Molluscs, Echinoderms and Arthropods (other than Insects)—David Nichols and John A. L. Cooke—Oxford Univ. Press, 1971, 218 p., 96 color plates, illus. by Derek Whiteley, \$11. Illustrations drawn from life depict wide range of visible species, each major group arranged according to habitat.

**PEOPLES AND CULTURES OF THE CARIBBEAN:** An Anthropological Reader—Michael M. Horowitz, Ed.—Natural Hist. Press, 1971, 606 p., diagrams, \$9.95. Articles probe in depth some of the area's problems in race relations, class, ethnicity, land tenure, internal marketing, and cultural pluralism.

**POLYHEDRON MODELS**—Magnus J. Wenninger—Cambridge Univ. Press, 1971, 208 p., photographs, diagrams, \$14.50. Provides practical guidance to the construction of models of all the known uniform polyhedra and some intricate stellated forms.

**RALPH LINTON**—Adelin Linton and Charles Wagley—Columbia Univ. Press, 1971, 196 p., \$7.50; paper, \$2.95. An account of the personality and contributions to anthropology and social science of one of the leaders of modern anthropology.

**A RATIONAL PUBLIC POLICY FOR MEDICAL EDUCATION AND ITS FINANCING**—John S. Millis—Nat'l Fund for Medical Educ., 1971, 158 p., paper, \$2. Comprehensive analysis of the current crisis in medical education, assesses the purpose, process and mechanism of medical education, and proposes rational improvements.

**REGULATION OF THE ANTIBODY RESPONSE**—Bernhard Cinader, Ed.—Thomas, C. C., 1971, 2nd ed., 400 p., photographs, diagrams, tables, \$19.50. Topics range from immunogenicity and tolerance to autologous macromolecules, through feedback inhibition by antibody itself, to regulatory role of the thymus, and genetic control of mouse immunoglobulins.

**RELATIONS IN PUBLIC:** Microstudies of the Public Order—Erving Goffman—Basic Bks., 1971, 396 p., \$7.95. Investigates the areas of face-to-face interaction practices, the ritualization of encounters, remedial interchanges, tie-signs and signals of relationships, and the maintenance of normal appearances in public.

**THE SCHIZOPHRENIC SYNDROME:** An Annual Review, 1971—Robert Cancro, M.D., Ed.—Brunner/Mazel, 1971, 791 p., illus., \$20. Collection of the latest outstanding articles on historical and theoretical aspects; family and other social interactions; biochemical, genetic and perceptual studies; and therapeutic aspects of schizophrenia.

**SEA SHELLS OF TROPICAL WEST AMERICA:** Marine Mollusks from Baja California to Peru—A. Myra Keen with James H. McLean—Stanford Univ. Press, 1971, 2nd ed., 1064 p., 22 color plates, photographs, drawings, maps, \$29.50. Treats all the recorded 3,325 molluscan species from the tropical and subtropical shores of the Eastern Pacific.

**SELECTED PAPERS IN BIOCHEMISTRY,** Vol. 3: Coding—Susumu Nishimura, Ed.—Univ. Park Press, 1971, 228 p., illus., \$12.50. Presents selection from the world literature of seminal papers on the subject, topics ranging from information transfer from nucleic acid to protein, to reading of the genetic message.

**STRATEGIES OF AMERICAN WATER MANAGEMENT**—Gilbert F. White—Univ. of Mich. Press, 1971, 155 p., maps, paper, \$2.45. Reviews the American experience and examines the major strategies which have actually been practiced in the United States.

**TIMES OF FEAST, TIMES OF FAMINE:** A History of Climate Since the Year 1000—Emmanuel Le Roy Ladurie, transl. from French by Barbara Bray—Doubleday, 1971, 426 p., 32 plates, illus., maps, \$10. Investigates the climatic factor in the development of European economic history, presenting a scholarly record of the fluctuations in the climate of the last ten centuries.

**TROPICAL QUEENSLAND:** A Natural History of Australia, 1—Stanley and Kay Breiden—Collins (Taplinger), 1971, 262 p., color plates, photographs, drawings, map, \$20. Well-researched volume by a team of skilled photographers, documents from close range the little known, distinct patterns of plants and animals, many of them nocturnal, in the rain forests and lagoons along a 700-mile strip of coastline in the northeast of Australia.

**200,000,000 YEARS BENEATH THE SEA**—Peter Briggs—Holt, 1971, 228 p., 16 plates, \$7.95. The story of the *Glomar Challenger*, its worldwide explorations in drilling the ocean floors, and the information gathered from the sediment cores.

**UNISIST:** A Study Report on the Feasibility of a World Science Information System—Unesco and International Council of Scientific Unions—UNIPUB, N.Y., 1971, 161 p., diagrams, paper, \$4. A description of a feasible world science information system and proposal for a continuing program sponsored by international governmental organizations.

**YOUR FUTURE IN OCEANOGRAPHY**—Norman H. Gaber—Arco, 1971, rev. ed., 143 p., photographs, paper, \$1.95. Professional career guidance, discusses the required skills and academic education, satisfactions and opportunities, earnings, and lists professional organizations.