

# New Books

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**THE ANCIENT ADIRONDACKS**—Lincoln Barnett & Editors of Time-Life Bks—Time-Life Bks, 1974, 184 p., color plates, photographs, \$7.95. Picture essays deal with the diverse wilderness areas of the six-million-acre Adirondack Park, the nation's biggest park.

**THE BIOLOGY OF THE OCEANIC PACIFIC: Proceedings of the 33rd Annual Biology Colloquium**—Charles B. Miller, Ed.—Ore State U Pr, 1974, 155 p., photographs, diagrams, \$6. Topics of papers range from the nature of oceanic ecosystems to enzymatic adaptations to deep sea life.

**ETHICS AS A BEHAVIORAL SCIENCE**—Archie J. Bahm—C C Thomas, 1974, 212 p., \$13.50; paper, \$9.75. Discusses obstacles to developing ethics as a science, then analyzes the ways of ethical situations, intrinsic values, values as objects, potential values, obligations, and principles for choosing, personally and for a group.

**EVOLUTION OF THE HOUSE: An Introduction**—Stephen Gardiner—Macmillan, 1974, 310 p., photographs, drawings by author, \$10.95. Spanning millennia, the book focuses on man's continued search to discover an aesthetic order, showing how different circumstances, customs and materials expressed this order in different indigenous styles.

**INDEXED GUIDE TO MODERN ELECTRONIC CIRCUITS**—Robert L. Goodman—TAB Bks, 1974, 216 p., diagrams, \$7.95; paper, \$4.95. Material organized by categories, describes how circuits work and how they sometimes fail.

**LIFE: THE UNFINISHED EXPERIMENT**—S. E. Luria—Scribner, 1974, 165 p., diagrams, paper, \$2.95. Nobelist presents a simple, factual view of modern biology as interpreted in terms of molecular mechanisms, dealing with the workings of life from gene to cell to complex organism to species.

**POLAR DESERTS AND MODERN MAN**—Terah L. Smiley and James H. Zumbege, Eds.—U of Ariz Pr, 1974, 189 p., photographs, diagrams, maps, tables, \$11.50. Presents data

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and analyzes aspects of climatology, geomorphic processes, limnology, soils, microbial ecology, transportation and sanitation in relation to intensified development in the polar regions.

**A QUANTUM MECHANICS PRIMER**—Daniel T. Gillespie—Halsted Pr, 1974, 150 p., paper, \$5.95. An elementary introduction to the formal theory of non-relativistic quantum mechanics.

**SCIENCE CALENDAR 1975**—National Science Teachers Association—Scribner, 1974, 10x13, 12 color plates, drawings, paper, \$3.95. Full-color photographs range from nebula 3,500 light-years away to cobweb, many dates have entries about scientists and scientific events.

**SCIENTIFIC TECHNOLOGY AND SOCIAL CHANGE: Readings from SCIENTIFIC AMERICAN**—Introductions by Gene I. Rochlin—W. H. Freeman, 1974, 403 p., photographs, drawings, diagrams, \$12; paper, \$6.95. Articles illustrate the extent to which scientific discovery and technological innovation have shaped human society and what role such processes may play in the future.

**THE SHELL MAKERS: Introducing Mollusks**—Alan Solem—Wiley-Interscience, 1974, 300 p., color plates, photographs, drawings, \$9.95. Provides introduction to mollusks and their probable patterns of evolution, explores basic living problems and how they were solved by different groups.

**TOWARD A STEADY-STATE ECONOMY**—Herbert E. Daly, Ed.—W H Freeman, 1973, 342 p., diagrams, \$8.95; paper, \$3.95. Articles with editor's comments seek to present a coherent point of view on the issues of environmental economics, based on both physical and ethical first principles.

**TRENDS IN MACROMOLECULAR SCIENCE**—Hans-Georg Elias, Ed.—Gordon, 1974, 130 p., color plate, photographs, diagrams, tables, \$12. Lectures give overview on present status and future trends in important branches of science. Topics include biopolymers, polymers in medicine, and structure-polymer relationships in a polymer.

**TROPICAL GEOMORPHOLOGY: A Study of Weathering and Land-form Development in Warm Climates**—Michael F. Thomas—Halsted Pr, 1974, 344 p., 26 plates, diagrams, maps, \$11.75. A study of land surfaces, in particular those that evolved by processes associated with chemical weathering, mass movement, and surface flow.

**THE UNKNOWN LEONARDO**—Ladislao Reti, Ed., designed by Emil M. Bührer—McGraw, 1974, 10x13, 319 p., 116 color plates, 755 photographs and drawings, \$39.95; until 1/1/75: \$34.95. Presents the creative mind and hand of this renaissance artist in a profusion of flawless reproductions that illuminate chapters on calligraphy, musical instruments, military architecture and weaponry, hydraulics, horology, and machinery.

**VIRUSES: The Smallest Enemy**—David M. Locke—Crown, 1974, 512 p., photographs, \$10.95. Written for laymen, the book tells authoritatively what research has found out about viruses, how they are classified, their life cycles, how they are studied, and the ways in which they invade the living cells. Also discusses specific virus diseases.

**ZOOMING IN: Photographic Discoveries Under the Microscope**—Barbara J. Wolberg—HarbraceJ, 1974, 9x11, 64 p., photomicrographs by Lewis R. Wolberg, \$7.75. Shows the intricate dimensions and designs of the hidden world seen through the microscope, and explains the technique of slide production.

## TEXTBOOKS

**BIOLOGY: The Structure of Life**—Joan E. Rahn—Macmillan, 1974, 480 p., color plates, photographs, diagrams, \$10.95. Aims to give tomorrow's voters, most of them nonscience majors, some basic knowledge of the biology of man and the animals and plants with which he shares this planet, showing how they are interrelated in a functional way.

**ENTROPY AND ENERGY LEVELS**—R. P. H. Gasser and W. G. Richards—Oxford U Pr, 1974, 150 p., diagrams, \$10. Introductory text, places strong emphasis upon the physical basis of statistical thermodynamics, includes discussion of low-temperature effects, spectroscopy, and other macroscopic phenomena dependent on the microscopic behavior of atoms and molecules.

**FANS: Design and Operation of Centrifugal, Axial-flow and Cross-flow Fans**—Bruno Eck, transl. from German by Ram S. Azad and David R. Scott, Eds.—Pergamon, 1974, 592 p., illus., \$45. Thorough text, covers fan engineering from fundamentals and experimental investigations of fan design to noise generation and its control.

**ILLUSTRATED HUMAN EMBRYOLOGY, Vol. III: Nervous System and Endocrine Glands**—H. Tuchmann-Duplessis, M.D. et al, transl. from French by Lucille S. Hurley—Springer-Verlag, 1974, 143 p., photographs, drawings, \$9.80. Combines detailed drawings and photomicrographs with concise, instructive text.

**INTRODUCTION TO GENERAL RELATIVITY**—H. A. Atwater—Pergamon, 1974, 224 p., \$9. Text intended to be accessible to undergraduates, emphasis is on the actual performance of relativistic calculations, rather than on mathematical rigor.

**INTRODUCTION TO MOLECULAR EMBRYOLOGY**—Jean Brachet—Springer-Verlag, 1974, 187 p., photographs, drawings, paper, \$5.90. Stating the problems in biochemical, rather than morphological terms, the author presents the developmental processes of the differentiating cell in terms of properties of macromolecules.

**THE PHYSICS OF LIQUID CRYSTALS**—P. G. de Gennes—Oxford U Pr, 1974, 342 p., plates, diagrams, \$32.50. Monograph covers the main properties of nematics, smectics and cholesterics, with particular emphasis on symmetry and on the mechanical and optical properties of each phase. Research workers and graduate students.

**PLANT PHYSIOLOGY**—R. G. S. Bidwell—Macmillan, 1974, 670 p., photographs, diagrams, \$14.95. Introductory text, presents current ideas about how plants function in narrative form, while complex metabolic pathways or biochemical mechanisms are treated separately, recalled as required in concluding narrative.

**PRACTICAL GENETICS**—P. M. Sheppard, Ed.—Halsted Pr, 1974, 350 p., plates, diagrams, tables, \$27.50. Material by specialists in laboratory work, designed to be stimulating and informative to the student and help the teacher inexperienced in a particular branch of genetics to become experimentally competent in it.

**THE VERTEBRATE RETINA: Principles of Structure and Function**—R. W. Rodieck—W H Freeman, 1974, 1,044 p., color plates, photographs, diagrams, tables, \$39.50. For advanced students and research workers, gives a comprehensive account of what is known about the vertebrate retina, starts with fundamentals and leads to the frontier of research in vision.