

# New Books

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**AWAKENINGS**—Oliver Sacks—Doubleday, 1974, 263 p., \$7.95. Neurologist presents the clinical and human case histories of 20 patients with Parkinson's disease and sleeping sickness, and their responses to the drug L-Dopa over a period of four years.

**BIOMECHANICS: An Approach to Vertebrate Biology**—Carl Gans—Lippincott, 1974, 272 p., photographs, drawings, \$12.50; paper, \$5.95. Intended to supplement textbooks on comparative anatomy and vertebrate biology, as well as to furnish a brief synthesis of approaches to biomechanical study.

**THE BLACK SEA: Geology, Chemistry and Biology**—Egon T. Degens and David A. Ross—AAPG, 1974, 642 p., illus., maps, tables, \$33. Interdisciplinary study of the structure of the basin of the recent geological and geochemical history of the Black Sea, and the chemical and biological interaction between its oxidized surface waters and the anoxic deep waters.

**CLINICAL CHEMISTRY: Principles and Technics**—Richard J. Henry, Donald C. Cannon and James W. Winkelman, Eds.—Har-Row Medical Dept, 1974, 2nd ed., 1,641 p., diagrams, \$37.50. Handbook deals almost exclusively with analytical aspects of the tests, normal values and sample stability, then discusses specific substances and methods of analysis.

**CLUES TO THE RIDDLE OF MAN: Readings in Modern Psychology**—William K. Graham and Richard S. Lazarus, Eds.—P.H., 1974, 509 p., illus., paper, \$6.95. Selections represent an account of man's struggle to understand his psychological nature.

**THE COMEDY OF SURVIVAL: Studies in Literary Ecology**—Joseph W. Meeker, foreword by Konrad Lorenz—Scribner, 1974, 238 p., \$8.95. Exploring the works of great poets for their insights into human nature, the author con-

cludes that it is the comic mode of behavior that affirms an instinctive pattern necessary for biological survival.

**COMMUNICATION, CONFLICT AND MARRIAGE**—Harold L. Raush, William A. Barry and others—Jossey-Bass, 1974, 250 p., \$10.75. With the aid of quantitative informational analysis, the authors explore husband-wife interactions within six categories of interaction and response: cognitive, resolving, reconciling, appealing, rejecting, and coercing.

**GETTING THE MOST OUT OF YOUR ELECTRONIC CALCULATOR**—William L. Hunter—TAB Bks, 1974, 204 p., illus., \$7.95; paper, \$4.95. Fully indexed computation procedures with practical examples to increase reader's math skills and show the great variety of applicable situations.

**A HISTORY OF AMERICAN ARCHAEOLOGY**—Gordon R. Willey and Jeremy A. Sabloff—W H Freeman, 1974, 252 p., photographs, drawings, maps, \$9.95; paper, \$4.95. Reviews the full course of developments in the discipline throughout the New World, from early European explorations to the present day, highlighting the ferment in American archaeology during the last dozen years.

**METRICS FOR THE MILLIONS**—Rufus P. Turner—Sams, 1974, 96 p., tables, paper, \$3.50. Deals with units of length, area, volume, mass, weight, and temperature, giving illustrative examples and practice exercises. Includes alphabetically arranged list of hundreds of conversion factors.

**PARTICLE SIZE ANALYSIS**—Zdeněk K. Jelínek, transl. from Czech by Otha Safr; W. A. J. Bryce, Ed.—Halsted Pr, 1974, 178 p., diagrams, tables, \$16.50. Covers the whole range of optical, mechanical, gravitation, osmotic, and translational methods, pore size analysis, and adsorption methods.

**A RANDOM WALK IN SCIENCE: An Anthology**—R. L. Weber, Compiler, E. Mendoza, Ed.; foreword by William Cooper—Crane-Russak, 1974, 223 p., plates, illus., \$12.50. Entertaining selection of high-spirited writings in the physical sciences, good intellectual fun.

**THE REDSHIFT CONTROVERSY**—George B. Field, Halton Arp and John N. Bahcall—W A Benjamin, 1974, 324 p., illus., tables, \$19.50; paper, \$11. Discusses the evidence for discordant redshifts, their interpretation as distance indicators, and reprints 15 selected original papers with comments summarizing the controversial debate.

**STRESS WITHOUT DISTRESS**—Hans Selye, M.D.—Lippincott, 171 p., photographs, \$6.95. Explains the physiological mechanisms of stress and offers specific advice based on biological research and philosophical insight.

**TOXICITY OF PURE FOODS**—E. M. Boyd; Carl E. Boyd, M.D., Ed.—CRC Pr, 1974, 260 p., photographs, diagrams, tables, \$35. Studies demonstrate that there may be a dose or amount of all pure foods which can produce a lethal toxicity syndrome in laboratory animals. Survey deals with clinicopathological syndromes of carbohydrates, fats, protein, water, salts, and food adjuvants.

**VITAMINS IN YOUR LIFE and the Micronutrients (Trace Elements) You Can't Live Without Them!**—Erwin Di Cyan, preface by Chauncey D. Leake—Simon & Schuster, 1974, 223 p., \$7.95. Concise and essential information on the nature of the vital vitamins, what they do, what they cannot do; on the functions of trace minerals and macrominerals; with chapter on obesity.

## TEXTBOOKS

**THE ABC OF ACID-BASE CHEMISTRY: The Elements of Physiological Blood-Gas Chemistry for Medical Students and Physicians**—Horace W. Davenport—U of Chicago Pr, 1974, 6th rev. ed., 124 p., diagrams, \$8; paper, \$3.45. Revised edition takes into account different ways of looking at the problems derived from new instrumentation.

**APHASIA THEORY AND THERAPY: Selected Lectures and Papers of Hildred Schuell**—Introd. by Luther F. Sies, Ed.—Univ Park, 318 p., illus., \$14.50. These contributions by one of the foremost scholars in speech and language pathology represent a short course in aphasia.

**CONCEPTS OF BIOENERGETICS**—Leonardo Peusner—P.H., 1974, 318 p., illus., \$12.50; paper, \$6.95. Undergraduate text, introduces the principles of classical and irreversible thermodynamics, kinetics and information theory, with biological applications to cellular physiology, molecular biology, biochemistry, and biophysical ecology.

**INTRODUCTION TO SEISMOLOGY**—Markus Båth—Halsted Pr, 1974, 395 p., illus., \$19.75. A popular review of modern seismology, its research methods, problems of current interest and results. Introductory textbook, information source for construction engineers, as well as for the interested layman.

**AN INTRODUCTION TO SOLID STATE PHYSICS AND ITS APPLICATIONS**—R. J. Elliott and A. F. Gibson—B&N, 1974, 500 p., illus., \$17.95. Draws together the basic theory of the solid state and examples of application of solid state properties in device fabrication, of interest to students of materials science.

**METALS, CERAMICS AND POLYMERS: An Introduction to the Structure and Properties of Engineering Materials**—Oliver H. Wyatt and David Dew-Hughes—Cambridge U Pr, 1974, 654 p., photographs, diagrams, \$35; paper, \$11.95. Rigorous and analytical undergraduate text describes how the useful properties of engineering materials depend upon their structure.

**NUCLEAR MAGNETIC RESONANCE**—F. R. Rushworth and D. P. Tunstall—Gordon, 1973, 265 p., diagrams, \$24. An introduction to the general theory of magnetic resonance, probing sufficiently deeply into certain selected applications to show the power of the method.

**PRINCIPLES AND APPLICATIONS OF ELECTRO-CHEMISTRY**—D. R. Crow—Halsted Pr, 1974, 228 p., diagrams, paper, \$7.75. Introductory text develops the subject in a concise, logical way.

**THE STRUCTURES OF THE ELEMENTS**—Jerry Donohue—Wiley-Interscience, 1974, 447 p., illus., tables, \$22.50. For advanced undergraduate or graduate students, includes lattice constants, positional parameters, interatomic distances, and, where appropriate, bond and torsion angles.

**SYSTEMS PHYSIOLOGY**—Samuel Armstrong Talbot and Urs Gessner—Wiley-Interscience, 1973, 525 p., diagrams, \$24.95. Presents a survey of systems-oriented descriptions and analyses of functional organization and performance of organs and organisms, using mathematical approach throughout. For students in biomedical engineering.

**WEATHER**—Louis J. Battan—P.H., 1974, 142 p., illus., \$7.95; paper, \$3.50. Highly readable introduction to the fundamentals of meteorology, from discussion of general features of the atmosphere to application of the science in weather forecasting and weather modification.

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