

# books OF THE WEEK

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**THE BRAIN REVOLUTION:** The Frontiers of Mind Research—Marilyn Ferguson—Tapping, 1973, 380 p., \$9.95. Presents for the general reader an overview of breakthroughs in research concerning altered states of consciousness, the brain, and scientific interest in psychic phenomena.

**CERAMIC FORMULAS:** The Complete Compendium—John W. Conrad—Macmillan, 1973, 309 p., color chart, \$10.95. Sourcebook for students and professional ceramists, a guide to clay, glaze, enamel, glass, and colors.

**THE CHESAPEAKE BAY IN MARYLAND:** An Atlas of Natural Resources—Alice Jane Lippson, Ed.—Johns Hopkins, 1973, 11½x 11½, 64 p., illus. by editor, 26 maps, \$8.95; paper, \$3.95. Documents handsomely a tidewater region rich in oysters, clams and crabs, spawning grounds for valuable fish species, and home to wintering waterfowl.

**CONTENT AND CONTEXT:** Essays on College Education—Carl Kaysen, Ed.—McGraw, 1973, 565 p., \$12.95. Report prepared for The Carnegie Commission on Higher Education, traces the history of the undergraduate curriculum itself, and subjects some of the major divisions to careful scrutiny.

**CURRENT RESEARCH TOPICS IN BIOINORGANIC CHEMISTRY—**Stephen J. Lippard, Ed.—Wiley, 1973, 454 p., diagrams, tables, \$24.95. Covers in depth developments in metalloprotein redox reactions, B<sub>12</sub> chemistry, alkali metal ion transport, and lanthanide ion NMR probes.

**THE ENVIRONMENTAL REVOLUTION—**Richard S. Lewis, Ed.—Science & Public Affairs Bk, 1973, 164 p., illus., paper, \$3.50. Collection of important articles that appeared in the *Bulletin of Atomic Scientists* in the last four years.

**EUROPEAN TECHNOLOGY:** The Politics of Collaboration—Roger Williams—Wiley, 1973, 214 p., \$13. An assessment of the reasons behind the commitment to collaborate, the process of collaboration, its control and evaluation.

**THE FIRST CITIES—**Dora Jane Hamblin and Editors of Time-Life Books—Time-Life, 1973, 160 p., color-plates, photographs, drawings, map, \$7.95. Deals with the emergence of the earliest centers of civilization that flourished between 8000 to 1500 B.C. in the land mass between the eastern Mediterranean and India.

**THE GENETIC FIX—**Amitai Etzioni—Macmillan, 1973, 276 p., \$7.95. Both scholarly and controversial, sociologist presents a timely examination of the broad implications and complexity of issues society must face as technological knowledge advances.

**GHAR PARAU—**David Judson—Macmillan, 1973, 216 p., colorplates, photographs, maps, \$10. Detailed account of a major cavers' expedition in the deep limestone caverns of the Zagros mountains in Iran.

**HOW TO MAKE AND BREAK HABITS—**Jhan Robbins and Dave Fisher—Wyden, 1973, 214 p., \$5.95. Systematic attempt to show the reader how to go about applying *behavior modification* techniques to stop overeating, smoking and other undesirable habits.

**IMPRINTING:** Early Experience and the Developmental Psycho-biology of Attachment—Eckhard H. Hess, foreword by Konrad Lo-

renz—Van Nos Reinhold, 1973, 472 p., illus., \$19.50. Comprehensive reference, reviews the historical development and all that has become known about the imprinting phenomenon, explores future prospects and techniques in imprinting research.

**INDUSTRIAL DISRUPTION—**C. Northcote Parkinson, Ed.—Leviathan Hse (Hippocrene), 1973, 181 p., illus. by Fran Woy, \$9. Probes with a team of experts the question of why modern society is so frequently disrupted by industrial disputes.

**THE RUSSIAN SCIENTIST—**Albert Parry—Macmillan, 1973, 196 p., photographs, map, \$5.95. Examines the personalities and contributions of Russian scientists, from Lomonosov in the 18th century, to Kapitsa and Sakharov.

**THE SCHOOL IN THE HOME:** A Primer for Parents of Preschool Children Based on the Works of Dr. A. A. Berle, Sr.—Thomas W. Evans—Har-Row, 1973, 195 p., \$6.95. Based on the premise that the home is the natural and best place for encouraging a happy intellectual curiosity, fed by questions and answers, the book describes one time-proven method and its application today.

**THE SCULPTURE OF LIFE—**Ernest Borek—Columbia U Pr, 1973, 181 p., illus., \$10; paper, \$2.95. Precise in meaning, with style and wit, microbiologist tells in layman's terms about current developments in the exploration of cell growth and differentiation.

**THE SEVEN AGES OF MAN—**Robert R. Sears and S. Shirley Feldman, Eds.—Wm. Kaufmann, 1973, 145 p., illus., \$7.95; paper, \$2.95. A readable survey of human biological and psychological development, originally published as a series in *New Society*.

**THE SOCIAL LIFE OF THE LION:** A Study of the Behavior of Wild Lions (*Panthera leo massaica* [Newmann]) in the Nairobi National Park, Kenya—Judith A. Rudnai—Wash Sq E (Univ. Park), 1973 8x12, 120 p., photographs, diagrams, maps, \$14.50. Field observations on ranges, activity patterns, individual activity, social behavior, reproduction, and predation.

**THE SOLID-LIQUID INTERFACE—**D. P. Woodruff—Cambridge U Pr, 1973, 182 p., photographs, diagrams, tables, \$10.95. Discusses the state of our knowledge of the solid-melt interface, from basic physical processes underlying all melt growth techniques, to special problems of dendritic, eutectic and crystal growth.

**STONE:** Properties, Durability in Man's Environment—E. M. Winkler—Springer-Verlag, 1973, 230 p., photographs, diagrams, tables, \$33.70. Reference work appraises the stability and durability of stone, the weathering of monumental stone through moisture, salts and rust, fire resistance, frost action, and silicosis. Discusses stone preservatives.

**TO UNDERSTAND IS TO INVENT:** The Future of Education—Jean Piaget—Grossman, 1973, 148 p., \$7.50. Written for the general public, book explains the author's concepts of genetic psychology and the stages of learning through which each child must pass.

**WHO'S LISTENING?** A Handbook of the Transactional Analysis of the Listening Activity—Franklin H. Ernst Jr., M.D.—Addresso'set 1973, 3rd ed., 223 p., diagrams, \$5.95. Synopsis of TA and summary of the activity of listening and hearing, followed by clinical examples of TA applied in treatment.

**THE WORLD IN FIGURES—**Victor Showers—Wiley-Interscience, 1973, 585 p., photographs, tables, \$14.95. A digest of up-to-date and comparable statistical information about 250 countries, 1600 cities, 2000 other geographical and cultural features, completely cross-referenced and indexed.

**THE YOU DON'T NEED A MAN TO FIX IT BOOK:** The Woman's Guide to Confident Home Repair—Jim Webb and Bart Housman,

introd. by Erma Bombeck—Doubleday, 1973, 248 p., drawings, \$7.95. Breezily written, very practical handyperson's guide for both sexes.

## TEXTBOOKS

**BIOLOGY—**James D. Ebert, Ariel G. Loewy, Richard S. Miller and Howard A. Schneiderman—HR&W, 1973, 798 p., photographs, drawings, two-color diagrams, tables, \$12.50. Outstanding text, for both student and layman, presents within a comprehensive framework, in depth and with accuracy, a full survey of the life sciences, together with excellent visual material.

**THE ELEMENTS OF NUCLEAR POWER—**D. J. Bennet—Wiley, 1973, 220 p., diagrams, \$15. Introductory text, deals with the principles of power generation from nuclear fission, discusses theory of nuclear reactors, heat transfer and fluid flow, thermodynamic aspects; and operating characteristics of nuclear reactors.

**EXPLORING THE COSMOS—**Louis Berman—Little, 1973, 478 p., photographs, drawings, diagrams, tables, \$12.95. Intended to acquaint the general reader or liberal arts student with the role and relevance of astronomy, the history of cosmology, celestial radiation, earth, moon, solar system, sun, galaxies, stellar evolution, and space astronomy.

**FINDLAY'S PRACTICAL PHYSICAL CHEMISTRY—**Revised and edited by B. P. Levitt—Halsted Pr, 1973, 9th ed., 442 p., photographs, diagrams, \$11.75. Modernized throughout, with new chapter on electrical measurements and transducers; new experiments range from thermistor, and molecular spectroscopy to homogeneous catalysis, and rotational viscometer.

**MOLECULAR BIOLOGY OF PLANTS:** A Text-Manual—Joe H. Cherry—Columbia U Pr, 1973, 204 p., illus., \$12. Designed to provide students with a wide range of procedures in areas of research, from experiments on enzyme purification, mitochondria isolation, nucleotide identification, to protein synthesis, and bio-assay of plant hormones.

**THE PERIODIC TABLE:** Experiment and Theory—J. S. F. Podes—Halsted Pr, 1973, 180 p., illus., paper, \$3.75. Short text shows how Mendeleev's ideas correlate the diverse facts of chemistry, then shows how this framework can be accounted for in terms of modern ideas of structure and bonding.

**PHYSIOLOGICAL PSYCHOLOGY—**J. Anthony Deutsch and Diana Deutsch—Dorsey Pr, 1973, rev. ed., 732 p., illus., \$15. Text organizes experimental findings around questions which arise from the study of behavior, while theories are used to organize and sharpen the basic issues presented.

**PHYSIOLOGY OF PLANTS AND THEIR CELLS—**James A. Goss—Pergamon, 1973, 457 p., photographs, diagrams, tables, \$15. Introductory text, also useful as general reference to the subject.

**PROBLEMS IN MATERIALS SCIENCE, Vol. 1—**Harish D. Merchant, Ed.—Gordon & Breach, 1973, 476 p., diagrams, tables, \$29.50. Advanced text, presents mathematical framework to enable the student to solve by himself the analytical problems and calculations at the end of each chapter.

**PROBLEMS OF OUR PHYSICAL ENVIRONMENT:** Energy, Transportation, Pollution—Joseph Priest—A-W, 1973, 389 p., photographs, diagrams, tables, \$10.95. Intended to teach physical principles using the environment as motivation.

**VEGETATION OF THE EARTH** in Relation to Climate and the Eco-Physiological Conditions—Heinrich Walter, transl. from 2nd German ed. by Joy Wieser—Springer-Verlag, 1973, 237 p., photographs, diagrams, maps, paper, \$5.90. Text gives an overview of the factors responsible in nature for preserving the physiological integrity of the plant world. An abridged form of the author's original two-volume study (1964, 1948).