

books OF THE WEEK

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THE CORNEAL LIGHT REFLEX: A Guide to Binocular Disorders—Emanuel Krimsky, M.D.—C. C. Thomas, 199 p., photographs, diagrams, \$15.75. Book stresses the clinical approach, seeking to simplify binocular eye examination by using the corneal light reflex as an objective guide.

DICTIONARY OF SCIENTIFIC BIOGRAPHY, Vol. VI: Jean Hachette to Joseph Hyrtl—Charles Coulston Gillispie, Ed.-in-Chief—Scribner, 1973, 619 p., \$35. Edited under the auspices of the American Council of Learned Societies, biographical articles deal with the principal mathematicians and natural scientists of all regions and all historical periods.

ELECTRON OPTICS AND ELECTRON MICROSCOPY—P. W. Hawkes—B&N, 1972, 244 p., photographs, micrographs, diagrams, \$17. Gives a readable account of the subject, with emphasis on recent developments and modern instruments including high voltage microscopes, superconducting lenses, field emission guns, the correction of aberrations, and other advanced topics.

THE EMPLOYED INVENTOR IN THE UNITED STATES: R&D Policies, Law and Practice—Frederick Neumeier with legal analysis by John C. Stedman—MIT Pr, 1972, 540 p., diagrams, tables, \$25. After introductory background statistics, the author presents 20 detailed case studies treating employee-invention policy in industry, government and universities.

ENVIRONMENTAL EDUCATION: A Sourcebook—Cornelius J. Troost and Harold Altman Eds.—Wiley, 1972, 575 p. illus., \$11.95; paper, \$8.95. Background information on the nature of ecosystems, abnormal ecology of pollution and crowding, the science and role of the ecologist, and specific suggestions, from integrated K-12 ecology curriculum to the use of academic simulations.

FIND A FALLING STAR—Harvey H. Nininger, introd. by Fred L. Whipple—Eriksson, 1972, 254 p., photographs, \$8.95. Gives autobiographical account of a lifetime spent in the single-minded pursuit of finding, collecting, studying, trading and exhibiting meteorites, directing attention both to the importance of meteorites and to the means of finding them.

GUIDE FOR SAFETY IN THE CHEMICAL LABORATORY—Manufacturing Chemists Assn.—Van Nostrand, 1972, 2nd ed., 505 p., illus. \$17.50. Completely revised reference source with new section listing hazardous properties for 1100 materials with recommended methods of waste disposal.

HOW TO BUILD SOLID-STATE AUDIO CIRCUITS—Mannie Horowitz—TAB Bks, 1972, 320 p., 190 diagrams, \$8.95; paper, \$5.95. Shows how to bias audio circuits, use feedback to improve frequency stability and fidelity, deal with noise in audio amplifiers, and protect transistor circuits against the common problems of heat, short circuits and "no-load" operation.

INFORMATION THEORY AND THE LIVING SYSTEM—Lila L. Gatlin—Columbia U Pr, 1972, 210 p., diagrams, \$10. Making adjustments in basic information theory, the author offers a theory designed to answer the question of how much information is stored in the base sequence of a given DNA molecule. The concept of entropy is greatly extended to deal with such questions.

INSECTS OF THE WORLD—Walter Linzenmaier, transl. from German by Leigh E. Chadwick—McGraw, 1972, 392 p., 160 full-color paintings and photographs by author, drawings, maps, charts, \$25. A major entomological work, combining word-and-picture book appeal with scientific accuracy and scholarly detail. Organized for reference and to invite browsing.

THE PULSE OF THE UNIVERSE: A State of the Earth Report from the Smithsonian Institution Center for Short-Lived Phenomena—James Cornell and John Surowiecki, Eds.—Harmony Bk (Crown), 1972, 130 p., photographs, drawings, \$5.95; paper, \$2.95. Fully illustrated records of more than 400 scientific events, observed worldwide between 1968 and 1971 by international research teams, events ranging from earthquakes and oil spills to spider invasions and Stone Age people discovery.

WILD GREEN THINGS IN THE CITY: A Book of Weeds—Anne Ophelia Dowden—Crowell, 1972, 56 p., illus. in color by author, \$5.95. Meticulously illustrated wild plants found on Manhattan, in the Denver and Los Angeles areas, are discussed in their ecological context.

THE WORLD ENCYCLOPEDIA OF ANIMALS—Maurice Burton, Ed.—World Pub, 1972, 400 p., color photographs, color diagrams, maps, \$20. General discussion and concise description of the physical characteristics and habitats of the world's fauna, alphabetically listed, incorporating latest research in zoology and the biological sciences, generously illustrated.

YOUTH IN TRANSITION, Vol. V: Young Men and Military Service—Jerome Johnston and Gerald G. Bachman—ISR, 1972, 254 p., diagrams, tables, \$8; paper, \$5. Monograph is concerned with military enlistment behavior, attitudes toward service, and prospects for an all-volunteer armed force.

TEXTBOOKS

MINICOMPUTERS: Hardware, Software and Applications—James D. Schoeffler and Ronald H. Temple, Eds.—IEEE Press, 1972, 366 p., photographs, diagrams, \$12.95; paper, \$6.50. Selected reprints chosen for their usefulness as textual material in short courses of minicomputer technology, from input and output devices to organization of computer projects.

PHYSICAL EDAPHOLOGY: The Physics of Irrigated and Nonirrigated Soils—Sterling A. Taylor, rev. by Gaylen L. Ashcroft, Ed.—W. H. Freeman, 533 p., photographs, diagrams, \$17.50. Text provides concise treatment of the influence of soil, water and atmospheric-conditions on plant production, presents subject both in a qualitative and quantitative manner.

SAND AND SANDSTONE—F. J. Pettijohn, Paul Edwin Potter and Raymond Siever—Springer-Verlag, 1972, 618 p., 258 illus., \$31.10. Text for advanced undergraduate and graduate courses in sedimentation, sedimentary petrology or general petrology, leads from consideration of the component grains to an analysis of sandstones in the sedimentary basin as a whole.

SECOND-LEVEL BASIC ELECTRONICS—Bureau of Naval Personnel—Dover, 1972, 323 p., 430 diagrams, paper, \$3. Thorough treatment of the more advanced levels of applied electronics; suitable for self-study as well as classroom use, with seven appendices valuable in all practical work.

SELECTED EXERCISES IN GALACTIC ASTRONOMY—I. Atanasijevic—Springer-Verlag, 1972, 144 p., diagrams, tables, \$11.80. Presents some of the more important problems dealt with in textbooks and university courses, in the form of laboratory exercises, mainly pertaining to questions of stellar motions, velocity distribution and galactic rotation.

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