

Books of the Week

Listing is an editorial service for readers' information. For convenient purchase of any book listed or any U.S. book in print, remit retail price (we pay postage) plus 25c handling charge if price is less than \$2 to Book Order Service, Science News, 1719 N St., N.W., Washington, D.C. 20036. Prices subject to publishers' changes. Be sure to include zip code in your address.

ATOMS AND THE CELL—P. A. Barker—Hawthorn Bks., 158 p., diagrams, paper, \$1.45. Reprint (1962), explains terms and theories to the layman and relates them to man himself.

BIBLIOGRAPHY OF PUBLICATIONS, 1941-1960: Supplement, 1961-December, 1966—National Opinion Research Center—NORC Library, 39 p., paper, \$2.50 to NORC Library, 6040 South Ellis, Chicago, Ill. 60637. Included are general staff and study-related publications.

THE CAUSES OF EVOLUTION—J. B. S. Haldane—Cornell Univ. Press, 235 p., diagrams, paper, \$1.95. Reprint (1932).

THE COMPREHENSIVE HIGH SCHOOL: A Second Report to Interested Citizens—James B. Conant—McGraw, 95 p. \$3.95; paper, \$1.95. Follow-up report based on detailed questionnaires sent to 2000 principals of comprehensive high schools, assessing what progress was made towards the 21 recommendations set forth in the study ten years ago.

THE DETERMINATION OF CRYSTAL STRUCTURES—H. Lipson and W. Cochran—Cornell Univ. Press, 3rd rev. ed., 414 p., 13 plates, diagrams, \$12.50. Attempts to cover the subject from the stage at which a set of structure amplitudes has been obtained to the final accurate positioning of the atoms.

DEVELOPMENTAL STUDIES OF SPATIAL JUDGMENTS BY CHILDREN AND ADULTS—Olin W. Smith and Patricia Cain Smith—Perceptual and Motor Skills, Monograph Supplement 1-V22, 73 p., \$3. Findings of experiments on judgments of size, distance, motion, visual direction, curvature, body size and visual acuity.

DIRECTORY OF NUCLEAR REACTORS, Vol. VI: Research, Test and Experimental Reactors (Supplement of Vols. II, III and V)—International Atomic Energy Agency—Internat'l Pubns., N. Y., 238 p., illus., folded map, \$7. Information on 62 reactors in 14 countries, in operation or under construction, grouped according to their moderators.

ECHOES OF CHINESE HISTORY—Hope Willis Rathbun—Tuttle, Chas. E., 116 p., illus. with paintings by author, \$5. A running tale recreating historical events in ancient China.

GUIDE TO RECORD RETENTION REQUIREMENTS (Title 1, Appendix A)—Office of the Federal Register—GPO, 82 p., paper, 40¢. Revised as of January 1, 1967, contains 900 digests of regulations issued by various Federal agencies.

A GUIDE TO TROPICAL & SEMITROPICAL FLORA—Lorraine E. Kuck and Richard C. Tongg—Tuttle, Chas. E., 158 p., 140 illus. in color, paper, \$2.95. Describes Hawaii's flowers, blossoming trees, vines and shrubs.

HOW TO ADOPT A CHILD—Robert A. Farmer & Associates—Arco, 133 p., \$4.95. Provides a guide to procedures, to adoption agencies, statutory requirements and laws in the 50 states.

INTRODUCTION TO MATHEMATICS—C. C. T. Baker—Arco, 143 p., diagrams, \$3.50; paper, \$1.65. Deals with some of the topics which have recently been stressed due to modern demands of industry and science, at the high school level.

INTRODUCTION TO MECHANICS—John Harwood—Arco, 225 p., illus., \$3.50; paper, \$1.65. A study of the laws of statics and dynamics with numerous exercises.

THE LIFE OF THE MIND IN AMERICA: From the Revolution to the Civil War—Perry Miller—Harcourt, 338 p., \$7.50. Posthumous publication of the historian's last work on the

intellectual foundations of the nation, its evangelical basis preserving unity in spite of sectarian multiplicity, the exertions of the jurists to construct a legal system, and an unfinished section on technological America.

LITHIUM-DRIFTED GERMANIUM DETECTORS: Proceedings of a Panel, Vienna, 1966—A. J. Tavendale and others—IAEA (Internat'l Pubns., N. Y.), 225 p., illus., paper, \$5. Reviews recent progress in the fabrication and application of Ge(Li) detectors.

LOCAL ATOMIC ARRANGEMENTS STUDIED BY X-RAY DIFFRACTION—J. B. Cohen and J. E. Hilliard, Eds.—Gordon & Breach, 381 p., illus., paper, \$22. Papers and discussion presented at a symposium in 1965, reviewing the quantitative measurement and interpretation of X-ray diffuse scattering with emphasis on progress made during the last decade.

LUTHER BURBANK: The Wizard and the Man—Ken and Pat Kraft—Meredith Press, 270 p., plates, \$7.95. Biography of the great plant experimenter, with bibliography and index.

THE NATURAL HISTORY OF FLIES—Harold Oldroyd—Norton, 324 p., illus., paper, \$2.25. Presents information on the physiology of flies in general, surveys in ascending order of evolution the flies in 16 groups, and discusses flies and man, and the future of flies. Bibliography included.

ON INVARIANTS AND THE THEORY OF NUMBERS—Leonard Eugene Dickson—Dover, 110 p., paper, \$1.50. Four lectures, originally (1914) published as Part I of The Madison Colloquium.

THE OXFORD BOOK OF FLOWERLESS PLANTS: Ferns, Fungi, Mosses and Liverworts, Lichens and Seaweeds—Frank H. Brightman—Oxford Univ. Press, 208 p., illus. in color by B. E. Nicholson, \$10. Arranged on an ecological pattern, the book is designed to help identify the nonflowering plants of the British countryside.

THE PSYCHOLOGY OF HUMAN AGEING—D. B. Bromley—Penguin Bks., 366 p., diagrams, paper, \$1.45. A factual and objective introduction to various aspects of adult life and old age, setting the psychological issues within the framework of human biology and social sciences. Includes extensive bibliographical notes.

THE PSYCHOLOGY OF LEARNING—R. Borger and A. E. M. Seaborne—Penguin Bks., 248 p., photographs, paper, \$1.25. Discusses the laws which seem to cover the process of learning in its widest sense, including programmed learning techniques and research into complex learning.

THE RADIO AMATEUR'S HANDBOOK 1967—Headquarters Staff of the American Radio Relay League, Byron Goodman, Ed.—Am. Radio Relay League, 44th ed., 648 p., 1,300 illus., \$6.50; paper, \$4. Updated standard manual of amateur radio communication, construction and design.

SHIP MODELS: Sailing Ships and Small Craft—B. W. Bathe—HMS (Brit. Inform. Service, N.Y.), 182 p., 80 color plates, illus., \$3.60. Illustrates and describes the Science Museum collection, showing the more important features in the development of naval architecture around the world.

SINGING BEHAVIOR AND ITS DEVELOPMENT IN THE SONG SPARROW MELODIA MELODIA—James A. Mulligan—Univ. of Calif. Press, 76 p., illus., paper, \$2. Field and laboratory studies of features, variability and repertoire size of adult song, and observations of its development under natural and experimental conditions.

THE STRANGLER FIG and Other Strange Plants—Olive L. Earle—Morrow, 64 p., illus. by author, \$2.95. Describes for young readers the habits of a few epiphytes, parasites and saprophytes.

THE SUPREME COURT: Law and Discretion—Wallace Mendelson, Ed.—Bobbs-Merrill, 509 p., \$7.50. By citing cases and relevant opinions of the Court as illustrations, the author describes the state of tension and controversy, and the constructive work in modernizing American constitutional law over the past three decades.

SYMBOLIC SHORTHAND SYSTEM—Hans Selye—Grad. School of Library Science, Rutgers (Rutgers Univ. Press), 89 p., illus., \$6. Presents the characteristics and methods of input to the system, indexing and output methods, and the system's use in the compilation of monographs.

TECHNOLOGY, ECONOMIC GROWTH AND PUBLIC POLICY—Richard R. Nelson, Merton J. Peck and Edward D. Kalachek—Brookings, 238 p., \$6. A Rand Corporation and Brookings Institution study exploring the relations among research, development, innovation and economic growth, considers the manner in which the economy adapts to technical change and suggests considerations for public policy.

WILLY LEY'S FOR YOUR INFORMATION on Earth and in the Sky—Willy Ley—Doubleday, 249 p., illus., \$4.95. An anthology of popular essays published in Galaxy magazine.

WINDOWS TO SPACE—James S. Pickering—Little, Brown, 218 p., photographs, diagrams by John Polgreen, \$4.75. Offers the amateur astronomer views of the universe through the double windows of optical telescopes and radio antennas.

Textbooks

ANIMAL TISSUE TECHNIQUES—Gretchen L. Humason—Freeman, 2nd ed., 569 p., illus., \$9. This revised standard laboratory handbook and text for basic courses in histological techniques contains both new techniques and more recent references.

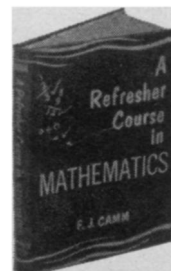
FUNDAMENTAL PHYSICS—Jay Orear—Wiley, 2nd ed., 472 p., illus., \$8.95. Revision of this handsomely designed textbook includes thorough and unified treatment of quantum mechanics at the pre-calculus mathematical level, and features "test your understanding" questions at the bottom of pages with answers on the next page.

PHYSIOGRAPHY OF THE UNITED STATES—Charles B. Hunt—Freeman, 480 p., illus., maps, \$7.50. Designed as a textbook for students majoring in subjects other than the earth sciences. Of particular value to future teachers of courses in earth sciences at elementary and high school levels.

PRINCIPLES OF ASTRONOMY with Special Emphasis on Long-Focus Photographic Astrometry—Peter van de Kamp—Freeman, 227 p., diagrams, \$6.50. Presents basic features of the space-time relations of stellar positions on the celestial sphere with emphasis on mathematical principles. A textbook on the intermediate level.

A REFRESHER COURSE IN MATHEMATICS

By F. J. Camm



Basic course, from arithmetic to the calculus, in order of difficulty. Explanations of principles followed by worked examples.

Includes: treatment of fractions, decimals, square root and cube root, logarithms, interest, algebra, equations, graphs, plane and solid geometry, trigonometry, differential and integral calculus; summary of mathematical formulas; etc., etc.

Will be of enormous help to those who have forgotten their math; also to those now acquiring it. 195 illustrations.

\$3.95 Postfree • 10-Day Money-Back Guarantee
EMERSON BOOKS, Inc., Dept. 226-R
251 West 19th Street, New York 10011

LANGUAGES? Easy!

Listen & Learn. Only course designed for travel, everyday life. 3 12" records, full of practical phrases, English & language recorded. Full manual with record text, phonetic transcription. Separate sets: Spanish, French, German, Italian, Russian, Japanese, Portuguese, Greek, Hebrew. \$5.95 each. Money-back guarantee. Dept. SNL, Dover, 180 Varick St., N.Y., N.Y. 10014

MEET THE HEAVENS!

LUNAR MAP: 10" chart in 2 colors identifies 326 mountains, seas, craters. 25 cents
POPULAR STAR ATLAS: All stars to magnitude 5½ charted in book form. \$2.50

Write for new free catalogue N.
Dept. SNP
SKY AND TELESCOPE Cambridge, Mass. 02136