

Books of the Week

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ARCHES, CONTINUOUS FRAMES, COLUMNS AND CONDUITS: Selected Papers—Hardy Cross, introd. by Nathan M. Newmark—Univ. of Ill. Press, 265 p., diagrams, \$5. Collection of important contributions to the field of structural analysis and design.

BASIC ASTRONOMICAL DATA—K. Aa. Strand, Ed.—Univ. of Chicago Press, 495 p., illus., \$12.50. This volume 3 of Stars and Stellar Systems describes the chief classes of astronomical data that are available from ground-based observatories, such as stellar spectra, colors, luminosities, temperatures and masses.

BECAUSE OF A TREE—Lorus J. Milne and Margery Milne—Atheneum, 152 p., illus. by Kenneth Gosner, \$3.95. The story of the interdependence and community of life around different trees, for young boys and girls.

THE CELL IN MITOSIS—Laurence Levine, Ed.—Academic Press, 274 p., illus., \$10. Written by specialists actively engaged in research, these proceedings explore the various aspects of cell division from the point of view of physiologists, electron microscopists, light microscopists and biochemists.

CHEMISTRY: A Modern Approach—John C. Hogg and others—Van Nostrand, 505 p., illus., \$5.80. A first-year chemistry course for high school students, based on the new approach which places greater emphasis upon the quantum picture of atomic structure.

CHILDREN, PROBLEMS AND SERVICES IN CHILD WELFARE PROGRAMS—Helen R. Jeter—Children's Bureau (GPO), 291 p., paper, \$1. Information about children receiving welfare services, about their characteristics—age, color, marital status of parents—and their problems.

CONCEPTS OF PERSONALITY—Joseph M. Wepman and Ralph W. Heine, Eds.—Aldine Pub. Co., 514 p., diagrams, \$8.95. Offers a comprehensive survey of the classical and contemporary personality theory including many examples illustrating these two trends.

CONFERENCE ON SPACE-AGE PLANNING: Proceedings—Hale Nelson, Chmn.—NASA (GPO), 301 p., illus., paper, \$2. Papers read at the Third National Conference on the Peaceful Uses of Space, Chicago, May 1-9, 1963.

THE DICTIONARY OF CHEMICAL NAMES—W. E. Flood—Philosophical Lib., 238 p., diagrams, \$7.50. An analytical study in glossary form of the origins and history of the chemical elements, natural and man-made, and more than 1,700 compounds, minerals and other substances.

DIFFUSION IN SEMICONDUCTORS—B. I. Boltaks, transl. from Russian by J. I. Carasso; H. J. Goldsmid, Ed.—Academic Press, 378 p., diagrams, \$14. Attempts to unify and systematize the experimental data on self-diffusion and impurity in semiconductors which have accumulated in recent years.

DIRECTORY OF TESTING LABORATORIES. Commercial-Institutional—Compiled by American Society for Testing and Materials—ASTM, 53 p., paper, \$1.50. Contains classification of commodities tested and alphabetic and geographic lists of laboratories most likely able to fulfill specific testing needs.

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ELEMENTS OF CHEMICAL REACTOR DESIGN AND OPERATION—H. Kramers and K. R. Westerterp—Academic Press, 245 p., diagrams, \$10. Text discusses non-specific engineering principles of the chemical reactors.

THE ENCYCLOPEDIA OF X-RAYS AND GAMMA RAYS—George L. Clark, Ed.—Reinhold, 1149 p., illus., \$35. Authoritative source of information on radiation science, covering the field from "absorptiometry" to "zirconium cladding", including topics such as chemical and biological effects of radiation, dosimetry, radiation hazards and protection.

ENVIRONMENTAL CONTROL OF PLANT GROWTH—L. T. Evans, Ed.—Academic Press, 449 p., illus., \$17. Presents the proceedings of symposium held in 1962 in Canberra, Australia, where experts from throughout the world reviewed progress made in studies on the interactions between plants and climate.

ENZYME AND METABOLIC INHIBITORS. Vol. I: General Principles of Inhibition—J. Leyden Webb, foreword by Linus Pauling—Academic Press, 949 p., diagrams, \$26. This first of four-volume work presents a unified account of the general principles inherent in the complex effects of inhibitors on enzymes, multi-enzyme systems, and living cells.

ESSAY ON ATOMISM: From Democritus to 1960—Lancelot Law Whyte—Harper, 108 p., paper, 95¢. First published in 1961, presents a historic analysis of atomic ideas with chronological table and a look into the future.

ESSAYS ON NUCLEIC ACIDS—Erwin Chargaff—Elsevier Pub. Co. (N. Y.), 211 p., diagrams, \$8. Biochemist's highly readable and critical essays on the complementarity principles underlying the discovery of base-pairing in nucleic acids.

THE FRUIT FLIES OR TEPHRITIDAE OF CALIFORNIA—Richard H. Foote and F. L. Blanc—Univ. of Calif. Press, 117 p., illus., maps, \$4. Morphology and systematic treatment of 30 genera and 105 species found in California, includes host list, trap record and bibliography.

A HISTORY OF WINE AS THERAPY—Salvatore P. Lucia, foreword by Sanford V. Larkey—Lippencott, 234 p., illus., \$6.50. A compact and scholarly compilation of the medical uses of wine from earliest mention of wine making through the successive civilizations, tracing the importance of wine in the treatment of disease.

INTERPLANETARY DYNAMICAL PROCESSES—E. N. Parker—Interscience, 272 p., diagrams, \$12.50. Presents a theory of interplanetary dynamics based upon coronal expansion as the source of interplanetary gas motions.

JUNIOR SCIENCE BOOK OF PENGUINS—Patricia Lauber—Garrard, 64 p., illus., \$2.50. Informative reading at elementary grade level.

LIVINGSTONE'S AFRICAN JOURNAL, 1853-1856, Vols. I & II—Introd. by I. Schapera, Ed.—Univ. of Calif. Press, 495 p., illus., \$11.50. Annotated verbatim record of Livingstone's observations during his search for a healthy mission station site in the interior of Central Africa and a direct route from there to the sea.

MAGIC, DIVINATION AND WITCHCRAFT AMONG THE BAROTSE OF NORTHERN RHODESIA—Barrie Reynolds—Univ. of Calif. Press, 181 p., illus., \$6. A scientific study in African social behavior based on the author's personal investigation of a wholesale outbreak of witchcraft and related practices that occurred in the late 1950s in Central Africa.

MAN AND THE LIVING WORLD—Karl von Frisch, transl. from German by Elsa B. Lowenstein—Harcourt, 304 p., illus. by Henri A. Fluchere, \$7.50. Renowned zoologist, original interpreter of the language of bees, writes lucidly and charmingly about life, body organs, adaptation and migration, development and heredity.

VERNIER MAGNIFIER \$1.25 p.p.



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NAMING THE LIVING WORLD: An Introduction to the Principles of Biological Nomenclature—Theodore Savory—Wiley, 128 p., \$3.95. Study shows how the practice of nomenclature is developing, how its problems have been tackled by cooperative worldwide rules, and describes the historical development of each of the codes.

NOISE IN HOSPITALS: An Acoustical Study of Noises Affecting the Patient—Lewis S. Goodfriend and R. L. Cardinell—PHS (GPO), 130 p., illus., paper, 70¢. See story on p. 151.

150 SCIENCE EXPERIMENTS STEP-BY-STEP—Judith Viorst, introd. by Watson Davis—Bantam Bks. (Science Service), 180 p., illus. by Dennis Telesford, paper, 60¢. Each of the experiments, carefully designed for grades six to nine, explains purpose, apparatus, steps and observations, ranging from easy to challenging in fields such as chemistry, physics, biology, weather and numbers.

NUCLEAR RADIATION PHYSICS—Ralph E. Lapp and Howard L. Andrews—Prentice-Hall, 3rd ed., 413 p., illus., \$12. Revised edition includes 23 new sections and presents subjects with considerably more mathematical detail.

THE OXFORD BOOK OF GARDEN FLOWERS—E. B. Anderson and others—Oxford, 207 p., illus. by B. E. Nicholson, \$8. Contains 96 colored plates with text on facing pages describing the flowers, their culture and related plants.

PHYSICS OF THIN FILMS: Advances in Research and Development, Vol. 1—Georg Hass, Ed.—Academic Press, 350 p., illus., \$13. Survey articles on important advances in the fields of optical thin films, ultra-high vacuum evaporators, reflecting films for the vacuum ultraviolet, and magnetic films of nickel-iron.

THE SCIENCE OF LIFE: A Picture History of Biology—Gordon Rattray Taylor—McGraw, 368 p., 352 illus., 16 color plates, \$9.95. Generously illustrated and readable account of man's endeavor in the field of the biological sciences, from the 16th century to the present breakthroughs in biochemistry and molecular biology.

SCIENTIFIC RESEARCH AND DEVELOPMENT IN COLLEGES AND UNIVERSITIES: Expenditures and Manpower 1958—National Science Foundation—GPO, 140 p., paper, 70¢. Final report on the Foundation's second survey conducted in colleges and universities since the first such study in 1954.

A SCIENTIST'S RESPONSIBILITY—V. S. Yemeljanov, transl. from Russian—Crosscurrents Press, 39 p., paper, 50¢. Soviet physicist's official statement on nuclear weapons quoting mainly western sources.

SOIL AND FRESHWATER NEMATODES—T. Goodey, rewritten by J. B. Goodey—Wiley, 2nd rev. ed., 544 p., illus., \$16. Revision includes numerous new genera and species, deals comprehensively with all genera of nematodes found in soil and freshwater habitats, and provides 87 tabular keys for identification.

THE STORY OF WEATHER—Captain David C. Homes, USN, introd. by S. Fred Singer—Pyramid, 190 p., photographs, illus., paper, 75¢. Popular account of the science of meteorology, including the work of upper air research rockets and of the weather satellites.

STRUCTURE AND ULTRASTRUCTURE OF MICROORGANISMS: An Introduction to a Comparative Substructural Anatomy of Cellular Organization—E. M. Brieger, with Appendix by R. W. Horne and A. P. Waterson—Academic Press, 327 p., illus., \$10. Approaches the problem of the organization of bacteria and other microorganisms at the molecular level.

SURVEY OF EDUCATIONAL MEDIA RESEARCH IN THE FAR EAST: Instructional Uses and Research Direction—Benjamin C. Duke, Ed.—OE (GPO), 181 p., illus., paper, 70¢. Survey and report made by Audio-Visual Center, International Christian University, Tokyo, Japan.

THUNDER AND LIGHTNING—John and Cathy Polgreen—Doubleday, 28 p., illus. by authors, \$1.50. Picture book for young boys, with additional facts for parents and teachers.

WRITING AS A CAREER—Norman Lobenz—Walck, H. Z., 119 p., photographs, \$3.50. Discusses among others also careers in technical journalism.

YOUR BLOOD AND YOU: The Story of Circulation—Sarah R. Riedman, foreword by A. J. Carlson—Abelard-Schuman, rev. ed., 192 p., illus. by Ida Scheib, \$3.50. Updated edition includes the circulatory system and the structure and function of heart and blood vessels. For boys and girls.

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