

Books of the Week

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THE ABC'S OF CHEMISTRY: An Illustrated Dictionary—Roy A. Gallant—Doubleday, 88 p., illus. by John Polgreen, \$3.95. Explains more than 500 basic concepts with the help of many diagrams, lists elements, laws of chemistry, Nobel Prize winners and other data for young students.

THE AMERICAN INDIAN—Adapted for young readers by Anne Terry White from text by William Brandon for American Heritage Book of Indians; Alvin M. Josephy Jr., Ed.; introd. by John F. Kennedy—Random House, 200 p., illus., \$5.95. Richly illustrated history for boys and girls.

APOLLO TERMINOLOGY: Prepared for Office of Manned Space Flight—NASA (OTS), 110 p., paper, \$2.75. Up-to-date collection of terms explained, from "Ablation" to "Zone."

ASTROPHYSICS: The Atmospheres of the Sun and Stars—Lawrence H. Aller—Ronald, 2nd ed., 650 p., illus., \$15. Covers methods employed for studies of solar and stellar atmospheres, spectroscopic properties of incandescent gases, and the influence of the sun upon the earth and its environment.

BIOLOGICAL SCIENCE: Molecules to Man—Biological Sciences Curriculum Study (Blue Version)—Houghton, 846 p., illus., \$7.96. Tested high school biology course material, presents biology as an adventure in ideas, and the ideas refer to specific observations and experiments about living things, showing how the theories of the gene, the cell, and of evolution are merging into a single inclusive idea.

CHANGE, HOPE AND THE BOMB—David E. Lighthall—Princeton Univ. Press, 168 p., \$3.50. A critical view of scientists in the role of lobbyists, and of the role of the atom in modern life.

CHEMISTRY—Greta Oppe—Steck, rev. ed., 236 p., illus. by Catherine Wiegand, paper, \$2. Describes more than 60 laboratory experiments at high school level.

CHRISTMAS IN BETHLEHEM and Holy Week at Mount Athos—Christopher Rand—Oxford Univ. Press, 168 p., map, \$4. Describes the Latin, Greek and Armenian Christmas celebrations in the region of their origin.

CLAN, CASTE AND CLUB—F. L. K. Hsu—Van Nostrand, 335 p., \$7.95. A comparative study of three cultures: the family-centered Chinese, the supernatural-centered Hindu and the individual-centered American.

DIGGING UP BONES: The Excavation, Treatment and Study of Human Skeletal Remains—Don R. Brothwell—British Museum of Nat. Hist., 194 p., illus., 17 plates, \$2.60. Tells archaeologists and others practicing anthropology, how to get, record and use data on evolution, growth, disease, and race mixture, from excavated skeletons of past populations.

EXPLORING EARTH AND SPACE—Margaret

O. Hyde—Whittlesey House, 3rd ed., 195 p., illus. by Clifford N. Geary, \$3.50. Updated edition for young people.

FAVORITE TREES OF DESERT, MOUNTAIN AND PLAIN—Ruth H. Dudley—Funk, 183 p., photographs, \$3.95. A readable book on historical, geographical and other facts about trees.

FIRST TO VENUS: The Story of Mariner II—Irl Newlan—McGraw, 64 p., photographs, \$3.25. Popular step-by-step account of the Jet Propulsion Laboratory project of the California Institute of Technology.

FOUNDATIONS OF LINEAR ALGEBRA—A. I. Mal'cev, transl. from Russian by Thomas Craig Brown, ed. by J. B. Roberts—Freeman, 304 p., \$7.50. Russian textbook, includes detailed treatment of tensor algebra.

FROM APE MAN TO HOMER: The Story of the Beginnings of Western Civilization—H. E. L. Mellersh—Taplinger, 222 p., illus. by Sally Mellersh, \$5. A very readable account of the development of early civilizations.

FURTHER EXPLORATIONS IN SCIENCE: A Second Book of Basic Experiments—Harry Milgrom—Dutton, 124 p., diagrams, \$3. Experiments with simple materials for young boys and girls.

THE GOLDEN BOOK OF SCIENCE—Bertha Morris Parker—Golden Press, rev. ed., 103 p., illus. by Harry McNaught, \$3.95. For boys and girls.

GREENHOUSE HANDBOOK FOR THE AMATEUR—James Underwood Crockett, Ed.—Brooklyn Botanic Garden, 97 p., illus., paper, \$1 direct to publisher, Brooklyn, New York 11225. Elementary guide for the backyard greenhouse gardener.

HUMAN DEVELOPMENTAL ANATOMY—Jack Davies—Ronald, 298 p., illus., \$9. Presents human normal development, followed by careful description of organogenesis for those without prior training in embryology.

THE IMPACT OF MODERN ASTRONOMY ON THE PROBLEMS OF THE ORIGINS OF LIFE AND THE COSMOS—Sir Bernard Lovell—Cordon Lectures (Univ. of Oregon Books), 46 p., illus., paper, \$1.50. Two lectures on the role of the radio telescope in space probes and about the interpretation of measurements for clues on the origin of life and the universe.

INFRARED BAND HANDBOOK—Herman A. Szymanski, Ed.—Plenum Press, 484 p., diagrams, \$35. Unique reference work with more than 8,500 band positions of organic and inorganic compounds tabulated according to wavelength of their infrared absorption spectra.

ISRAEL: The Making of a Nation—D. R. Elston—Oxford Univ. Press for the Anglo-Israel Assn., 159 p., \$5. Attempts to give an objective account of the historical background, Israel's institutions today, its science, social services, the national economy, and cultural activities.

JUNIOR PEARS ENCYCLOPAEDIA—Edward Blishen, Ed.—Arco, 3rd ed., multi-paged, illus., \$3.50. Fully revised British reference book for young students to browse in.

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LABORATORY MANUAL OF GENERAL CHEMISTRY—C. H. Sorum—Prentice-Hall, 3rd ed., 364 p., illus., paper, \$5.50. A collection of experiments designed for the needs of beginning college chemistry majors as well as those without previous courses in chemistry.

MOLECULAR BIOLOGY OF BACTERIAL VIRUSES—Gunter S. Stent—Freeman, 474 p., illus., \$9.50. An introductory text on bacteriophages, dealing with the host cell, the infective unit, growth cycle, mutation, radiobiology, DNA and the genetic code.

MOLECULAR EQUILIBRIUM: A Programmed Course in General Chemistry—P. H. Cornell and R. N. Reusch—Saunders, 217 p., paper, \$2.25. A tested aid to learning, approach is kinetic and assumes no prior knowledge of equilibrium.

THE OCEAN: Man's Conquest of the Sea—Alan Villiers—Dutton, 192 p., illus., maps, \$3.95. Tells about man's varied vessels and voyages exploring the ocean, from the point of view of an experienced sailor.

OUR QUAKING EARTH—Elliott Roberts—Little, 247 p., photographs, \$4.50. About earthquakes, how they happen, and how man has learned to track them.

PAPERBACKS IN THE SCHOOLS—Alexander Butman, Donald Reis and David Sohn, Eds.—Bantam Bks., 152 p., paper, 95¢. A special subject-by-subject report by authorities on the uses and challenges of paperbacks in U.S. schools.

PATHWAYS TO PROBABILITY: History of the Mathematics of Certainty and Chance—Amy C. King and Cecil B. Read—Holt, 139 p., illus., paper, \$1.28. Tells how present theories of probability have been developed.

PEARS CYCLOPAEDIA, 1963-64—L. Mary Barker, Ed.—Arco, 72nd ed., multi-paged, illus., maps, \$5. A popular British reference book for the home with up-to-date information on events, people and science; general section including myths, ideas, gazetteer and atlas; and home and social section on medical matters, gardening and pets.

A PLACE TO LIVE: The Yearbook of Agriculture 1963—Alfred Stefferud, Ed.—USDA (GPO), 584 p., illus., \$3. See story on p. 301.

PRESSURE VESSEL DESIGN: Nuclear and Chemical Applications—John F. Harvey—Van Nostrand, 274 p., illus., \$9.75. Text for the engineering graduate, deals with the evaluation of primary and secondary stresses in vessels as they arise from pressure, temperature, fatigue, corrosion and mechanical shock.

PRINCIPLES OF BIOASTRONAUTICS—Siegfried J. Gerathwohl—Prentice-Hall, 557 p., illus., \$16. Comprehensive treatise on the life science aspects of the space vehicle and its operation, the space environment, and man and his mission in space.

THE PROCESS OF EVOLUTION—Paul R. Ehrlich and Richard W. Holm—McGraw, 346 p., illus. by Anne H. Ehrlich, \$8.95. A challenging textbook for an advanced undergraduate course in evolutionary theory presented as a unified whole.

PROSPECTS FOR THE WEST—J. William Fulbright—Harvard Univ. Press, 132 p., \$3.25. Analysis by the Chairman of the Senate Committee on Foreign Relations.

REALMS OF GOLD: A Journey in Search of the Mycenaeans—Leonard Cottrell—N. Y. Graphic, 278 p., photographs, maps, \$5.95. A journey through the prehistory of the Aegean world.

ROLE DEVELOPMENT AND INTERPERSONAL COMPETENCE: An Experimental Study of Role Performances in Problem-Solving Groups—David Moment and Abraham Zalesnik—Harvard Univ. Grad. School of Bus. Admin., 346 p., \$6. Results of a series of experimental studies demonstrating that the work styles of individual executives are a product of the individual's history.

THE ROYAL BIRDS—Lillian Grace Paca—St Martins, 163 p., illus. by author, \$7.50. Describes each of ten species of the swan family, and the myths and care of swans.

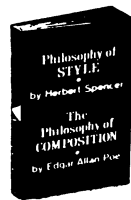
SATELLITE TRACKING FACILITIES: Their History and Operation—Shirley Thomas—Holt, 159 p., illus., paper, \$1.28. Discusses the Minitrack system, the Moonwatch, space surveillance and deep space instrumentation, in nontechnical language.

WILLIAM DAVID COOLIDGE: Yankee Scientist—John Anderson Miller—Mohawk Development Service, 216 p., photographs, \$3.95. Summary of the career of the GE Research Laboratory scientist who developed the X-ray tube and other X-ray equipment. See picture p. 295.

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