

Books of the Week

For the editorial information of our readers, books received for review are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C.

ANIMAL STRUCTURE AND FUNCTION—Donald R. Griffin—*Holt*, 120 p., illus., \$1.75. At beginning college level, this book emphasizes the principles of organization in living animals, rather than variety and lines of descent.

ASTRONOMY—Fred Hoyle—*Doubleday*, 320 p., 400 illus., \$12.95; until Christmas, \$9.95. Handsomely illustrated volume in which an astronomer presents the history of man's investigation of the universe, for the general reader.

THE ATOMS WITHIN US—Ernest Borek—*Columbia Univ. Press*, 272 p., illus., paper \$1.95. Attempts synthesis of what is known about molecular structure and molecular mechanism of living things, describing the work of the biochemist in layman's language.

THE BOOK OF TELECOMMUNICATION: Telephone, Telephone, Radio, in the Past, Present and Future—Leonard de Vries, transl. from Dutch by Karla Oosterveen—*Macmillan*, 132 p., illus. by Gerard van Straaten, \$3.95. A story-book for boys and girls.

CELLS: Their Structure and Function—E. H. Mercer—*Doubleday*, 134 p., illus., paper, 95¢. Describes the results of recent work on the structure of cells and current theories about cell function.

CLOUD PHYSICS AND CLOUD SEEDING—Louis J. Battan—*Doubleday*, 144 p., illus., paper, 95¢. Introduction to applied meteorology, authoritative and readable.

COMPARATIVE ANATOMY ATLAS—Carl Gans and John F. Storr—*Academic Press*, unpagged, ringbound, illus., \$2.50. Atlas covers the spiny dogfish, the mudpuppy and the cat.

COMPOSITION OF SCIENTIFIC WORDS—Roland Wilbur Brown—R. W. Brown (*Smithsonian Inst.*), rev. ed., 882 p., \$8. Published by author

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in 1956, comprises manual of methods and a lexicon of materials for the practice of logotechnics.

THE CONTINENT WE LIVE ON: A Special Edition for Young Readers—Ivan T. Sanderson, adapted by Anne Terry White—*Random House*, 208 p., photographs, maps, \$4.95. Introduces boys and girls to the ecology of the 21 "natural provinces" of North America.

COUNT RUMFORD: Physicist Extraordinary—Sanborn C. Brown—*Doubleday*, 178 p., illus., paper, 95¢. Prepared under the direction of the Physical Science Study Committee, this biography tells the unusual story of the gifted experimenter and prolific inventor.

THE DISCOVERY OF NEPTUNE—Morton Grosser—*Harvard Univ. Press*, 172 p., \$4.95. Historical study of the theoretical calculations that led to the discovery of the eighth planet in the solar system.

EDUCATIONAL PROGRAMS AND FACILITIES IN NUCLEAR SCIENCE AND ENGINEERING—University Relations Division—*Oak Ridge Inst. of Nuclear Studies*, 2nd ed., 119 p., paper, single copies free upon request direct from publisher, P. O. Box 117, Oak Ridge, Tenn. Lists degrees, courses and facilities for nuclear education offered by 236 educational institutions in the U.S.

ELECTRICITY AND HOW WE USE IT—Tillie S. Pine and Joseph Levine—*Whitlsey House*, 50 p., illus. by Bernice Myers, \$2.50. For the young-est readers.

ELEMENTS OF ACOUSTIC PHONETICS—Peter Ladefoged—*Univ. of Chicago Press*, 118 p., illus., \$3.50. Concise account of some of the aspects of acoustics for the benefit of linguists and phoneticians.

FEDERAL AGENCIES FINANCING RESEARCH: The 1962 Guide to Government Grants and Contracts—Miriam Keeler, Ed.—*Social Legislation Information Service*, 4th ed., 42 p., paper, \$2. A guide to aid organizations and individuals engaged in, or planning, research projects in finding the Federal agencies most interested in providing financial assistance.

FIRST-AID AND NURSING FOR YOUR DOG—F. Andrew Edgson and Olwen Gwynne-Jones—*Arco*, rev. 3rd ed., 122 p., illus., \$1.05. Alphabetically arranged reference on emergency treatment, for dog owners.

THE GREEK STONES SPEAK: The Story of Archaeology in Greek Lands—Paul MacKendrick—*St. Martins*, 470 p., photographs, maps, \$7.50. A study of Greek archaeology, from the early Aegean Bronze Age to Greek architecture under the Roman Empire.

HISTORICAL GEOLOGY: Manual of Laboratory Exercises—Forbes Robertson and Wilson M. Laird—*Burgess*, 173 p., 14 plates, maps, paper, \$4.75. Exercises deal with geologic maps and related data, and, in a systematic way, with fossils.

HUMAN ANATOMY: A Lecture and Laboratory Manual—William J. McCauley—*Burgess*, 82 p., illus., paper, \$3.50. Manual provides student

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IDEAS FOR SCIENCE FAIR PROJECTS—Ronald Benrey and other winners of the National Science Fair—International—*Fawcett*, 142 p., illus., paper, 75¢. About types of projects, their planning, building and presentation.

LIFE IN THE UNIVERSE—Francis Jackson and Patrick Moore—*Norton*, 140 p., illus., \$3.95. Astronomer and research bacteriologist examine the nature and origin of living organisms on earth and present speculations about their existence in space. For the layman.

LIVES OF AN OAK TREE—Ross E. Hutchins—*Rand McNally*, 64 p., illus. by Jerome P. Connolly, \$2.95. Beginning with the acorn seedling, children can follow the tree through its cycle of life.

MAN AGAINST PAIN: 3,000 Years of Effort to Understand and Relieve Physical Suffering—Bernard Seeman—*Chilton Bks*, 209 p., \$3.95. Very readable account of how man has learned to ease pain.

MICROBIAL LIFE—W. R. Siström—*Holt*, 112 p., illus., \$1.75. Introduces the beginning biology student to the concept of microorganisms, especially bacteria, as living and growing creatures.

NOMADS AND COMMISSARS: Mongolia Revisited—Owen Lattimore—*Oxford Univ. Press*, 238 p., photographs, \$5.75. A general description of what Mongolia and the Mongol People are today, with frequent references to historical phases of change and development.

NOMOGRAPHY AND EMPIRICAL EQUATIONS—Dale S. Davis—*Reinhold*, 2nd ed., 261 p., \$8. College level course, with sufficiently detailed procedures to make it suitable for self-study.

NUTRITION IN A NUTSHELL—Roger J. Williams—*Doubleday*, 171 p., illus., paper, 95¢. Biochemist presents for the layman the facts about nutritional needs.

PHYSICAL SCIENCES: Some Recent Advances in France and the United States—Hartmut P. Kallmann, Serge A. Korff and Sidney G. Roth, Eds.—*N. Y. Univ. Press*, 243 p., illus., \$7.50. Among areas discussed were seismology, magnetic resonance, radio astronomy and hydraulics.

THE SCIENTIFIC OUTLOOK—Bertrand Russell—*Norton*, 277 p., paper, \$1.65. Reprint (1931). Philosopher outlines the effects of scientific methods and techniques on human life.

SCORE: The Strategy of Taking Tests—Darrell Huff—*Appleton*, 149 p., illus. by Carolyn Huff, \$3.75. Humorously written manual on how to tackle tests with common sense and efficiency.

SKYHOOKS—Kurt R. Stehling and William Belter—*Doubleday*, 264 p., illus., \$4.95. The history of ballooning, from Mongolflifer to present Stratolab projects, for the general reader. Includes chronology of outstanding balloon flights.

STANDARD ENCYCLOPEDIA OF THE WORLD'S MOUNTAINS—Anthony Huxley, Ed.—*Putnam*, 383 p., photographs, maps, \$9.95. Reference on mountaineering pioneers, glossary, articles covering the world's mountains from "Aberdare Range" in Kenya to "Zagros" in Iran, gazetteer and index.

STUDYING TO PASS THE PROFESSIONAL ENGINEERS' LICENSING EXAMINATION—Allan D. Kraus—*Macmillan*, 558 p., diagrams, \$9. A self-study text.

TOPICS IN CHEMICAL PHYSICS: Based on the Harvard Lectures of Peter J. W. Debye—Alfred Prock and Gladys McConkey—*Elsevier Pub. Co.*, 277 p., \$11. Deals with fundamentals of the static electric field, dielectric properties of condensed phases, interaction between radiation and matter, and fundamental aspects of coiling molecules.

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