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.

ABUNDANCE OF CHEMICAL ELEMENTS-V. V. Cherdyntsev, transl. from Russian by Walter Nichiporuk—Univ. of Chicago Press, 304 p., \$10. Revised translation of 1956 monograph on the abundance of elements from the viewpoint of the stability of the atomic nuclei.

THE ACHIEVEMENT OF SOVIET MEDICINE-L. Fridland, M.D.-transl. from Russian, foreword by W. Horsley Gantt, Ed.—Twayne, 352 p., \$6.50. Translation of a popular Russian book on the advances of Russian medicine under the Soviet regime.

BLACK GOLD: The Story of an Oil Pioneer—Arthur Beeby-Thompson, foreword by Herbert Hoover-Doubleday, 544 p., photographs, \$5.95. Experiences and observations of an eminent British petroleum engineer who practised his profession for 60 years in almost every part of the world.

Bone: An Introduction to the Physiology of Skeletal Tissue—Franklin C. McLean and Marshall R. Urist.—Univ. of Chicago Press, 2nd rev. ed., 261 p., illus., \$6. Concise statement of the present status and important advances in the fields of the physiology and biochemistry of the

CELL MECHANISMS IN HORMONE PRODUCTION AND ACTION—P. C. Williams and C. R. Austin, Eds.—Cambridge Univ. Press, 173 p., illus., \$7.50. Proceedings of a symposium held in 1960 by the Society for Endocrinology as an inquiry into the processes of hormone synthesis and secretion, and of the effects of hormones on cells.

A CHRONOLOGY OF MISSILE AND ASTRONAUTIC EVENTS: House Report—Committee on Science and Astronautics, U. S. Congress—GPO, 189 p., paper, 55ϕ . Summary of satellites and planetoids, and check lists of other launchings.

THE DESIGN OF RESEARCH LABORATORIES-Nuffield Foundation Division for Architectural Studies—Oxford Univ. Press, 211 p., \$7.20. Report on an investigation into the function and design of research laboratories, with chapters on noise, vibration, fire safety precautions, materials and finishes.

DIABETICS UNKNOWN—Groff Conklin—Public Affairs Committee, Pamphlet No. 312, 28 p., illus., paper, 25¢ direct to publisher, 22 E. 38th St., New York 16, N.Y. Discusses symptoms and treatment of diabetes.

Dissertations in Physics: An Indexed Bibliography of All Doctoral Theses Accepted by

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American Universities, 1861-1959—M. Lois Mackworth, Compiler—Stanfard Univ. Press, 803 p., \$17.50. First single source book, reference tool for libraries, teachers and research physicists.

THE DRAGON TREE: A Life of Alexander, Baron von Humboldt—Val Gendron—Longmans, 214 p., plates from Humboldt's own works, \$3.95. Presents the life and work of the German explorer and scientist of the early 19th century.

ELEMENTARY MATHEMATICAL ANALYSIS E. Labarre, Jr.—Addison-Wesley, 706 p., \$7.75. One-year foundation course for students who plan to major in mathematics, science, engineering or mathematical education.

THE EMPLOYMENT INTERVIEW-Milton M. Mandell—Am. Management Assn., 110 p., paper, \$4.50. Discusses effective interview method, current administrative practices, areas needing improvement, and selection of inter-

Error-Correcting Codes-W. Wesley Peterson—M.I.T. Press, 285 p., \$7.75. Unified treatment of coding theory, for engineers or mathematicians who require thorough knowledge of coding.

FUEL ELEMENT FABRICATION: With Special Emphasis on Cladding Materials, Vol. I-International Atomic Energy Agency—Academic, 538 p., illus., \$14. Proceedings of a Symposium held in Vienna, May 10-13, 1960, attended by 200 scientists from 23 different countries.

Fundamentals of UHF — Allan Lytel—Rider, J. F., 153 p., illus., paper, \$3.90. Explains in some detail the basic features of ultra high frequency.

GENETIC ASPECTS OF DAIRY CATTLE BREED-ING—Ivar Johansson—Univ. of Ill. Press, 259 p., illus., \$7.50. Surveys the present knowledge regard to the genetics of economically important characters of dairy cattle and methods for their improvement.

Man on the Moon: Our Future in Space James Throneburg—Knopf, 65 p., illus. by Peter Plasencia, \$2.75. Explains to children some of the problems involved in a moon landing.

MEMOIRS OF A MEDICO-E. Martinez Alonzo —Doubleday, 335 p., \$4.50. Personal experiences of a Spanish physician.

METEOR SCIENCE AND ENGINEERING-D. W. R. McKinley—McGraw, 309 p., illus., \$12.50. Summarizes major observational and theoretical developments in meteor science, embracing the history of the particles and the effects they create in the upper atmosphere.

MODERN ALGEBRA: First Course-Richard E. Johnson, Lona Lee Lendsey and William E. Slesnick—Addison-Wesley, 628 p., \$4.95. High school algebra showing how modern algebra supplies a language and patterns of reasoning to the rest of mathematics.

MODERN DIELECTRIC MATERIALS-J. B. Birks, Ed.—Academic, 253 p., illus., \$7.50. Surveys dielectric and insulating materials used in mod-

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ern electrical technology, including silicones, synthetic rubbers, ferroelectric ceramics and organic polymers.

NATIONAL INSTITUTES OF HEALTH: Scientific Directory, 1961 and Annual Bibliography, 1960 -U. S. Public Health Service-GPO, 144 p., paper, 45¢. For reference use by research workers in the biomedical sciences.

The Natural History of the Lewis and CLARK Expedition — Introd. by Raymond Darwin Burroughs, Ed.—Mich. State Univ. Press, 340 p., \$7.50. Description of wildlife along the course of the Missouri and Columbia rivers, from the journals of Lewis and Clark.

NUMERICAL WEATHER ANALYSIS AND PRE-DICTION—Philip D. Thompson—MacMillan, 170 p., \$6.50. Primer of numerical prediction, stressing the fundamental physical and mathematical aspects of the subject.

OPERATIONAL ELECTRICITY: Theory, Characteristics, Applications, and Mode of Operation of Circuits and Machines—Charles I. Hubert—Wiley, 530 p., illus., \$8.50. Two-semester course intended for students enrolled in nonelectrical engineering courses.

OPTIMUM DESIGN OF MECHANICAL ELEMENTS Ray C. Johnson—Wiley, 535 p., illus., \$11.50. Presents explicit method of design that takes into consideration practical limitations unavoidable in real problems, and thus seeks to eliminate impractical design.

ORIENTATION TO ENGINEERING-A. W. Futrell, Jr.—Merrill, C. E., 250 p., illus., paper, \$3.95. Discusses every phase of engineering and what are the qualifications and responsibilities of the professional engineer.

ORIGIN OF OIL AND OIL DEPOSITS-M. E. Al'tovskii, Z. I. Zuznetsova and V. M. Shvets; uransi, trom Russian—Consultants, 107 p., illus., \$17.50. On the results of field investigations of the content of organic substances and microflora in substances and microflora in subsurface waters in oil-bearing and non-oil-bearing districts, and the significance of these substances in oil-forming processes.

Physiology: A Laboratory Manual—Nelle A. Hartwig and Donald A. Dickmann—Burgess, 4th rev. ed., 169 p., illus., paper, \$3.50. Simple exercises requiring a minimum of laboratory equipment.

THE PLASMA STATE—E. J. Hellund—Reinhold, 197 p., illus., \$6.50. Describes in non-mathematical terms the fundamentals and significance of highly ionized gases.

PROCEEDINGS OF THE SIXTH SYMPOSIUM ON MAGNETISM AND MAGNETIC MATERIALS: Supplement to the Journal of Applied Physics, Vol. 32, 1961-J. A. Osborn, Chmn.-McGraw, 400 p., illus., \$10. Papers dealing with pure physics and with applications, including thorough coverage of ferromagnetic resonance

RADIOACTIVE WASTES: Their Treatment and Disposal—J. C. Collins, Ed.; foreword by Sir Alexander Fleck—Wiley, 239 p., illus., \$8. Contributions by British authorities with practical experience and fundamental understanding of the problems involved in disposing of radioactive solid wastes and radioactive gases.

THE THEORY OF SUBSONIC PLANE FLOW-C. Woods—Cambridge, 594 p., \$22.50. Systematic treatment of two-dimensional subsonic, inviscid fluid motion and its aeronautical applications, employing the same mathematical methods and variables throughout.

WILD WAYS: A Book of Animal Habits-Ross E. Hutchins—Rand McNally, 109 p., 50 photographs by author, \$3.50. Interesting stories about some unusual animal habits.

WITTON'S MICROBIOLOGY-Rewritten and revised by Genevieve Gray Young-McGraw, 3rd ed., 586 p., illus., \$8. Textbook on the relations between microorganisms and the human body in health and disease.

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