

Books of the Week

Listing is for readers' information, not advertising. For convenient purchase of any book listed or any U.S. book in print, remit retail price (we pay postage) plus 25¢ handling charge if price is less than \$2 to Book Department, Science Service, 1719 N St., N.W., Washington, D. C. 20036.

ADVANCES IN CRYOGENIC ENGINEERING, Vol. 10: Proceedings of the 1964 Cryogenic Engineering Conference (Sections A-L)—K. D. Timmerhaus, Ed.—Plenum Press, 513 p., illus., \$17.50. Papers on metallic and on nonmetallic materials behavior, insulation, instrumentation, safety, cryopumping, fluid phenomena, and miniature refrigerators.

ATOMIC DIPLOMACY, HIROSHIMA AND POTSDAM: The Use of the Atomic Bomb and the American Confrontation with Soviet Power—Gar Alperovitz—Simon & Schuster, 317 p., \$7.50. The author digs into the records of the time when the first use of the atomic bomb was an issue, and gives his interpretation of the strategy and tactics employed.

BETWEEN NIGER AND NILE—Arnold J. Toynbee—Oxford Univ. Press, 133 p., photographs, \$3.75. Historian's traveling impressions during visits to the United Arab Republic, Morocco, Nigeria, the Sudan, Ethiopia and Libya in the 1960's.

BIOGRAPHICAL MEMOIRS, Vol. XXXVIII—Vannevar Bush and others—Nat. Acad. of Sciences (Columbia Univ. Press), 425 p., photographs, \$5. Fourteen biographies of recently deceased Academy members, including Robert Mearns Yerkes and Theodore von Karman.

CONCEPTS IN PHYSICAL SCIENCE—Sidney Rosen, Robert Siegfried and John M. Dennison—Harper, 577 p., illus., \$9.95. A new text covering the fundamental concepts of astronomy, physics, chemistry and geology, illustrating by example the growth in the understanding of the nature of the universe and its various physical phenomena.

CRISIS IN COMMUNICATION: The Functions and Future of Medical Journals—Sir Theodore Fox—Athlone Press (Oxford Univ. Press), 59 p., \$2.40. After 20 years as editor of *The Lancet*, the author discusses the functions of medical journals, the crisis brought about by their proliferation, and some thoughts on the future of medical journals.

ELECTRONIC INFORMATION HANDLING—Allen Kent and Orrin E. Taulbee, Eds.—Spartan Bks., 355 p., illus., \$6.75. Conference papers on

processing methodology, ranging from library science to military command and control.

ENGINEERING MANPOWER IN PROFILE—National Engineers Register—Engineers Joint Council, 35 p., maps, paper, \$1 direct to publisher, 345 E. 47 St., New York City 10017. See story on p. 56.

THE FEYNMAN LECTURES ON PHYSICS; Vol. 3: Quantum Mechanics—Richard P. Feynman, Robert B. Leighton and Matthew Sands—Addison-Wesley, multipaged, diagrams, \$6.75. Based on lectures given at CalTech at the sophomore level.

GENETICS—Robert C. King—Oxford Univ. Press, 2nd ed., 450 p., illus., \$8.50. Revised introductory textbook, takes into account new advances based on recent research.

THE GREATEST CHALLENGE—Martin Caidin—Dutton, 320 p., photographs, illus., \$5.95. Dramatically presents the tasks and complex problems man must overcome in the exploration of space.

A HISTORY OF EUROPEAN THOUGHT IN THE NINETEENTH CENTURY, Vols. I-IV—John Theodore Merz—Dover, 458 p., 807 p., 626 p., 825 p., paper, \$2.75 each; four-vol. set \$11. Complete, unabridged reprint of work first published between 1904 and 1912.

HOW TO WRITE BETTER AND FASTER—Terry C. Smith—Crowell, 220 p., illus., \$4.95. Practical handbook of tested techniques for saying what you mean clearly, quickly and effectively.

IAEA LABORATORY ACTIVITIES: Second Report—International Atomic Energy Agency—Int'l Publications (N.Y.), 106 p., illus., paper, \$1. Technical reports on the IAEA Laboratory at Vienna, the International Marine Radioactivity Laboratory at Monaco, the International Center for Theoretical Physics, Trieste, and the Middle Eastern Regional Radioisotope Center for the Arab Countries.

INTERNATIONAL ADVANCES IN CRYOGENIC ENGINEERING: Proceedings of the 1964 Cryogenic Engineering Conference (Sections M-U)—K. D. Timmerhaus, Ed.—Plenum Press, 427 p., illus., \$17.50. Papers cover refrigeration, superconductivity applications, thermodynamics, bubble chambers, fluid pressurization, heat transfer, and European equipment development.

LIBRARY PLANNING FOR AUTOMATION—Allen Kent, Ed.—Spartan Bks., 195 p., illus., \$6.75. Deals with the problem of storage and retrieval of recorded knowledge, in particular the proposed National Science Library System.

MATHEMATICAL ENTERTAINMENTS: A Collection of Illuminating Puzzles, New and Old—M. H. Greenblatt—Crowell, 160 p., diagrams, \$4.95. A collection of clever mathematical problems in various categories, with their elegant solutions.

NATIONAL ZIP CODE DIRECTORY, June 1965—Post Office Department—GPO, 1802 p., map, paper, \$7. Lists ZIP Code prefixes by states, post offices with multiple carrier delivery city ZIP Codes, alphabetical lists of post office and city lists, numerical list of post offices by ZIP Codes, and ZIP Codes discontinued.

NEBULAE AND GALAXIES—Giorgio Abetti and Margherita Hack, transl. from Italian by V. Barocas—Crowell, 264 p., photographs, diagrams, \$6.95. Up-to-date descriptions and interpretations of the latest observations of planetary nebulae that belong to our galaxy, of the irregular bright and dark nebulae, and the external galaxies outside of our own galaxy.

NORTH AMERICAN BIRDS EGGS—Chester A. Reed, new preface by Paul A. Buckley—Dover, rev. ed., 372 p., illus., paper, \$3. Illustrates in natural size the eggs of nearly every species of North American bird.

OUR DEPLETED SOCIETY—Seymour Melman—Holt, 366 p., \$5.95. An analytical and controversial review of U.S. industrial production figures, particularly critical of the role played by military budgets and the cold war.

THE PEACE CORPS: A Pictorial History—Aaron J. Erickson, Ed., introd. by Sargent Shriver—Hill & Wang, 160 p., photographs, \$6.95. A record, mainly pictorial, of the Peace Corps at work in Latin America, Asia and Africa.

PHOTOSYNTHESIS: BSCS Pamphlet 24—Hans Gaffron—AIBS (Heath), 36 p., illus., paper, 60¢. Reviews on advanced high school level our fundamental knowledge on the reaction in which light is used in green plants to recombine water and carbon dioxide into digestible food.

THE PROFESSOR AND THE VANISHING FLAGS—Richard G. Van Gelder—Harvey House, 47 p., illus. by Harriett, \$2.50. A story about children who learn some facts about whales.

PROPOSED AMENDMENT TO SECTION 271 OF THE ATOMIC ENERGY ACT OF 1954: Hearings 1965—Joint Committee on Atomic Energy—GPO, 202 p., illus., paper, 65¢. Indexed hearings

on transmission of electricity to Stanford Linear Accelerator.

RACOONS & EAGLES: Two Views of American Wildlife—Polly Redford, foreword by Carl W. Buchheister—Dutton, 254 p., illus., \$4.95. Complete account of the life history of a mammal and a bird, based on both research and the author's own field experiences.

THE SCIENTIFIC ENDEAVOR: Centennial Celebration of the National Academy of Sciences—Melvin Calvin and others, foreword by Detlev W. Bronk and Frederick Seitz—Rockefeller Institute Press, 332 p., illus., paper, \$2.50. Articles on the history of the universe, the nature of matter, and the determinants and evolution of life.

SHIFT WORK: The Social, Psychological and Physical Consequences—Paul E. Mott and others—Univ. of Mich. Press, 351 p., \$8.50. A systematic study of the effect of afternoon and night shifts on workers' lives in industries requiring 24-hour work schedules.

A SOURCE BOOK IN THE HISTORY OF PSYCHOLOGY—Richard J. Herrenstein and Edwin G. Boring, Eds.—Harvard Univ. Press, 636 p., \$12.50. Arranged by topic, the 116 excerpts range in time from Epicurus to the turn of the present century.

SYMPOSIUM ON THERMAL RADIATION OF SOLIDS, 1964—S. Katzoff, Ed.—NASA (GPO), 620 p., photographs, diagrams, paper, \$3.75. Sponsored by USAF, NBS and NASA, the symposium dealt with fundamentals, surface effects, measurement techniques, space environment effects and applications.

THE UNITED STATES PATENT OFFICE AND THE GERMAN PATENT OFFICE: A Comparative Study—Simon Broder—Vantage Press, 227 p., \$7.50. Study delves into the differences in the organization of the two patent offices, with suggestions for improvement in the U.S. Patent Office.

THE UNIVERSAL ENCYCLOPEDIA OF MATHEMATICS—Foreword by James R. Newman—New Am. Lib., 720 p., paper, \$1.50. Alphabetically arranged, clearly written and reliable reference work, translation of a widely used German student compendium, includes more than 200 pages of formulae and tables.

THE YEAR OF THE GORILLA—George B. Schaller—Ballantine, 285 p., 32 p. photographs, paper, 75¢. Reprint (1964). Account of young zoologist's observations of wild gorillas in the African jungle.

Books listed are those received and processed in the week before the issue goes to press. Each book is carefully scrutinized from the standpoint of reliability. It is our policy, except under extraordinary circumstances, not to list books which our staff of experts deems would not be useful to our readers. In general, an unreliable, inaccurate book is not listed. The books listed are with rare exceptions in English and available in the United States. Suggestions from readers for making this page more useful would be welcome.

• Science News Letter, 88:60 July 24, 1965

EDUCATION

Stanford University To Have British Campus

► STANFORD UNIVERSITY in California is to set up a British campus for U.S. students in Lincolnshire next year.

The university has taken a 10-year lease on Harlaxton Manor, an Elizabethan-style mansion near Grantham, England.

This will be the first stage in an ambitious international scheme to provide Stanford students with a liberal education. The plan provides for four other colleges to be established in European countries: France, West Germany, Italy and Austria.

The first contingent of Stanford men and women is due at Harlaxton next January. A total of 160 students a year, in batches of 80 at a time, will spend a six-months' period in England. They will study such subjects as British industrial relations, and Anglo-American relations, under the instruction of American professors and leading British academic and public figures.

The director of studies and the administrative staff are expected to be British, but a strong force of American professors will enable the students to study the same courses as those at Stanford.

• Science News Letter, 88:60 July 24, 1965

HOW YOU SAY IT Can Send You to the TOP —or to a back seat!

Today more than ever, the difference between solid success and frustrating failure often hinges solely on one's ability to **express oneself effectively**—both in private and in public. As it happens, the laws of successful voice communication are no longer a mystery—in fact are quite simple and, with the new techniques, can nowadays be mastered readily by the person of average intelligence willing to expend a little effort.

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