

Books of the Week

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ADOLESCENT PERSONALITY AND BEHAVIOR: MMPI Patterns of Normal, Delinquent, Dropout and Other Outcomes—Starke R. Hathaway and Elio D. Monachesi—Univ. of Minn. Press, 193 p., \$5.75. Study covers nearly 15 years, based on what thousands of adolescents said about themselves and what others said about them.

BASIC COGNITIVE PROCESSES IN CHILDREN: Report of the Second Conference Sponsored by the Committee on Intellectual Processes Research of the Social Science Research Council—John C. Wright and Jerome Kagan, Eds.—Soc. of Research in Child Development, 196 p., diagrams, paper, \$3.50. Discusses research on the learning processes in children.

BIOLOGICAL SCIENCE: An Inquiry into Life. BSCS High School: Biology, Yellow Version—John A. Moore, Bentley Glass and others—Harcourt, 748 p., illus., \$8; Laboratory Guide, paper, \$2.60; text and guide \$8. This tested and revised Yellow Version attempts to give insight into the entire field of biology and impart an understanding of biological inquiry.

A BRIEF HISTORY OF ELEMENT DISCOVERY, SYNTHESIS AND ANALYSIS—Glen W. Watson—Lawrence Radiation Lab., 17 p., illus., paper, single copies free upon request direct to publisher, Univ. of Calif., Berkeley-Livermore, Calif. Good reference for high school students.

COMPUTER APPLICATIONS IN MEDICINE—Edward E. Mason and William G. Bulgren—Thomas, C. C., 171 p., \$6.75. Monograph on the use of computers in hospital administration, diagnosis, EEG and ECG interpretation and in other medical research.

THE CONTROL OF LIPID METABOLISM: Biochemical Society Symposium No. 24—G. Popjak, Chmn.; J. K. Grant, Ed.—Academic Press, 191 p., illus., \$7. For advanced students, research workers and physicians who seek a better understanding of diseases in which disturbances in lipid metabolism absorption are involved.

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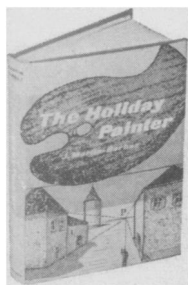
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33 1/3 rpm Record—Text by Arthur A. Allen, record ed. by Peter Paul Kellog—Houghton, 30 p., color photographs by A. A. and D. G. Allen, identification drawings by Roger Tory Peterson, album \$6.95. A Cornell Laboratory of Ornithology Book Album.

DIURETICS: Chemistry and Pharmacology—George deStevens—Academic Press, 186 p., illus., \$7. An authoritative appraisal of the significant developments in the chemistry and pharmacology of diuretics.

THE DOORS OF PERCEPTION AND HELL—Aldous Huxley—Harper, 185 p., \$3.95. Reprint of two earlier books, the first a description of the effects of the drug mescaline, the second an exploration of the attributes common to all visionary experience.

ESSAYS ON CREATIVITY IN THE SCIENCES—Myron A. Coler, Ed., foreword by Paul A. McGhee—N. Y. Univ. Press, 235 p., \$6.50. Interdisciplinary exchange of ideas on the question of scientific creativity by associates of the Creative Science Seminar Division of General Education, New York University.

FLORA OF MISSOURI—Julian A. Steyermark—Iowa State Univ. Press, 1,725 p., maps, 2,300 line drawings, \$18.50. Regional flora of more than 2,400 species of ferns and flowering plants found in Missouri, based on 30 years of field and herbarium studies; includes 50-page Key.

FLYING: Principles of Flight and the Development of Aircraft—Martin Caidin—Holt, 144 p., photographs, \$2.50. A study in nontechnical terms of the science of flight, the mechanisms operating in the atmosphere and the effects of the weather on flight.

THE FOUNDATION DIRECTORY—Foundation Library Center, Ann D. Walton and Marianna O. Lewis, Eds., intro. by F. Emerson Andrews—Russell Sage Foundation, 2nd ed., 1,000 p., \$10. Describes more than 6,000 foundations, includes index by fields of interest, alphabetic list of trustees and officers. Introduction analyzes assets, expenditures, grants, types and fields of foundation activity.

THE FRESH-WATER FISHERMAN'S BIBLE—Vlad Evranoff—Doubleday, 180 p., illus. by author, photographs, paper, \$1.95. Useful information on bass, trout, pike, pickerel, perch, catfish, carp, salmon and others.

GUIDELINES FOR DEVELOPMENT OF PROGRAMS IN SCIENCE INSTRUCTION—Office of Scientific Personnel, NAS-NRC, M. H. Tritton, Dir.—Nat. Acad. of Sciences-Nat. Res. Council, 68 p., paper, \$2. A report of a study making specific reference to the teaching function of the laboratory in secondary school science programs.

THE HUMAN BRAIN: Its Capacities and Functions—Isaac Asimov—Houghton, 357 p., illus. by Anthony Ravielli, \$5.95. Gives the general reader and student an understanding of the organization that makes multicellular life possible, showing the difference between a mere collection of cells and a living, dynamic organism.

THE IDEA OF PREHISTORY—Glyn Daniel—World Pub. Co., 220 p., photographs, \$4.50. A history of scientific archaeological and anthropological study, beginning with the 18th century and concluding with the techniques and theories of our time.

THE MAKING OF THE ELECTRICAL AGE: From the Telegraph to Automation—Harold I. Sharlin—Abelard-Schuman, 248 p., illus., \$5.95. The story of 150 years of inventions and their applications, discussing the telegraph, telephone and radio, generators, motors, power stations and computers.

THE MANY WORLDS OF BENJAMIN FRANKLIN—Frank R. Donovan and Editors of American Heritage, Whitfield J. Bell, Consultant—Am. Heritage Pub. Co. (Harper), 153 p., 125 illus., \$3.95. Includes interesting chapter on Franklin's experiments and inventions.

MATHEMATICAL METHODS IN CHEMICAL ENGINEERING—V. G. Jensen and G. V. Jeffreys—Academic Press, 556 p., \$15. This text aims to explain mathematical methods such as the Laplace Transformation and the Finite Difference Calculus to established chemical engineers.

MEASUREMENT OF THERMAL RADIATION PROPERTIES OF SOLIDS—Joseph C. Richmond, Ed.—NASA (GPO), 587 p., illus., paper, \$3.50. A symposium held at Dayton, Ohio, in 1962, sponsored jointly by Aeronautical Systems Division, USAF, by NBS and NASA.

THE MIDDLE EAST: A Social Geography—Stephen H. Longrigg—Aldine Pub. Co., 291 p., 69 photographs, maps, \$6.95. Combining history and geography, the book provides an authoritative and readable survey of the region, its peoples and its problems.

MODERN MEDICINES—Donald G. Cooley—Franklin Watts, Inc. (Grollier), 228 p., \$4.95. Explains how revolution in use of drugs and medicine came about, reports on research that uncovered new ingredients and gives reasons for drug regulations.

NOBLE-GAS COMPOUNDS—Herbert H. Hyman, Ed.—Univ. of Chicago Press, 404 p., illus., \$12.50. Presents a wide range of experimental techniques in summarizing research in connection with the recent discovery of compounds of "inert" gases, such as argon, xenon and krypton.

OURS IS THE EARTH: Appraising Natural Resources and Conservation—Allan A. Sollers—Holt, 128 p., illus., \$2.50. Stresses the interdependence of our basic resources, discussing water, soils, forests, rangelands, wildlife and minerals.

PHILOSOPHICAL PROBLEMS OF SPACE AND TIME—Adolf Grünbaum—Alfred A. Knopf, 448 p., \$10.75. Discusses philosophical implications of both the special and the general theories of relativity and emphasizes the interconnection between those theories and the major philosophical analyses of space and time.

PHYSICS OF PLANT ENVIRONMENT—W. R. Van Wijk, Ed.—Interscience, 382 p., diagrams, \$12.50. Combines application of the fundamental laws of natural science with the quantitative methods of reasoning of mathematical physics to study a range of problems encountered in the physics of the soil and air layers near the surface of the earth.

PROJECT GEMINI: Step to the Moon—Michael Stoiko—Holt, 128 p., illus. by Frank DiPietro, \$3.95. Tells young people the story behind projects Gemini and Apollo, with useful charts and schedules to follow developments.

PROPAGATION AND INSTABILITIES IN PLASMAS, The Seventh Lockheed Symposium on Magnetohydrodynamics—Walter I. Fetterman, Ed., Stanford University Press, 144 p., \$4.50. Nine papers presenting recent experimental and theoretical results in the dynamics of plasma behavior.

SELF-RENEWAL: The Individual and the Innovative Society—John W. Gardner—Harper, 141 p., \$3.50. Thoughtful consideration of the elements of the ever-renewing, vigorous and creative society and the need for the individual in each generation to rediscover the meaning of its society's values.

SERIOUS MENTAL ILLNESS IN CHILDREN—Harry Milt—Public Affairs Pamphlets, No. 352, 28 p., illus. by Dick Shelton, paper, 25¢ direct to publisher, 22 E. 38th St., New York, N. Y. 16. About childhood schizophrenia, its symptoms, causes and treatment.

A SOURCE BOOK IN PHYSICS—William Francis Magie—Harvard Univ. Press, 620 p., illus., \$10. Reprint (1935), presents the most significant passages from the works of the most important contributors to the science of physics from Galileo to the Curies.

THE UNIVERSE OF SCIENCE—Charles Noel Martin, transl. from French by T. Schoeters—Hill & Wang, 208 p., photographs, \$3.95. A French nuclear physicist-journalist attempts to summarize our present knowledge of the universe, from galaxies to atoms.

• Science News Letter, 85:44 Jan. 18, 1964

GENERAL SCIENCE

Ford Grants Generous For Science Studies

► **SCIENTIFIC RESEARCH** received more than \$19 million from the Ford Foundation in 1963.

Grants for work on population problems totaled \$2,906,000, and grants for science and engineering programs totaled \$16,396,200, Henry T. Heald, president, said in the Ford Foundation's 1963 annual report.

Research on reproductive biology, mechanical contraceptives and improvement of the rhythm method were among the programs supported by the population grants.

Science and engineering funds enabled young professors to spend time in industrial firms, thus increasing their knowledge of technological decision-making, supported graduate education in engineering and expanded college science programs and facilities.

The Ford Foundation allocated a grand total of \$247.7 million in the fiscal year ending Sept. 1963 to the U.S. and to developing countries for programs ranging from the arts to international affairs.

The aim of aiding foreign lands, Mr. Heald said, "is to enable individual human beings to do something about their lives—have enough to eat and wear, adequate shelter, and above all the experience that betterment is possible."

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