

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 36, D. C.

ADVANCES IN INSECT PHYSIOLOGY, Vol. 1.—J. W. L. Beament, J. E. Treherne and V. B. Wigglesworth, Eds.—Academic Press, 512 p., illus., \$14.80. Reviews recent research on selected topics such as the feeding behavior in grasshoppers and locusts, the biochemistry of the insect fat body, and the osmotic and ionic regulation in insects.

AMERICAN INSTITUTE OF PHYSICS HANDBOOK—Dwight E. Gray and others, Eds.—McGraw, 2nd ed., 2,058 p., 60 p. index, illus., \$29.75. Prepared as a working tool for those employing physical methods in research, this new edition reflects recent trends in research with its new emphasis on solid state physics, acoustics and liquids, extreme temperatures, and magnetic properties of materials.

AMERICAN MILITARY INSIGNIA, 1800-1851—J. Duncan Campbell and Edgar M. Howell—Smithsonian Inst. U.S. National Mus. (GPO), 124 p., 276 photographs, \$2. This historical monograph is number 235 of the Bulletin series.

ASPENS: Phoenix Trees of the Great Lakes Region—Samuel A. Graham, Robert P. Harrison Jr. and Casey E. Westell Jr.—Univ. of Mich. Press, 272 p., photographs, \$7.50. A study of aspens and a reference work valuable to botanists, foresters, wood technologists and others interested in preserving natural resources and wildlife.

BASIC FACTS OF CHILD PSYCHOLOGY—Fred Couey; John E. Flaherty and Joyce D. Portnoy, Eds.—Collier Bks., 64 p., paper, 95¢. Pocket-size digest of the subject with handy detachable review cards.

BASIC FACTS OF GENERAL SCIENCE—Robert L. Stanger and Eli Wurm—Collier Bks., 64 p., paper, 95¢. Outline of the subject at high school level, with detachable review cards.

BASIC FACTS OF INTRODUCTORY PSYCHOLOGY—Fred Couey—Collier Bks., 64 p., paper, 95¢. Intended to give the student a better grasp of the subject, includes detachable review cards.

BIBLIOGRAPHY AND INDEX OF GEOLOGY EXCLUSIVE OF NORTH AMERICA, Vol. 26—Marie Siegrist, Mary C. Grier and others—Geological

Soc. of Am., 816 p., \$18. Covers literature on the geology of South America, Europe, Asia, Africa, Australia, Iceland and islands of the eastern Atlantic and western Pacific Ocean basins.

BIRD WATCHERS AND BIRD FEEDERS—Glenn O. Blough, pictures by Jeanne Bendick—McGraw, 48 p., illus., \$2.95. Takes young readers through the four seasons teaching them how to identify, feed, band and protect birds; fully illustrated, with a list of state birds.

CHEMICAL CONCEPTS—Jay A. Young—Prentice-Hall, 152 p., illus., spiral-bound, \$2.95. Designed as a self-instructional programed manual, discussing topics such as symbols, formulas, chemical equations and gases by breaking them into very small steps.

COMPARATIVE BIOCHEMISTRY: A Comprehensive Treatise, Vol. V: Constituents of Life, Part C—Marcel Florin and Howard S. Mason—Academic Press, 637 p., illus., \$20. This volume covers amino acids, inorganic nitrogen compounds, acid metabolism, collagen, photosynthesis and halides.

COMPARISON OF TWO VISION-TESTING DEVICES—National Center for Health Statistics, PHS—GPO, 33 p., illus., paper, 30¢. Methodological study, compares visual acuity as measured by the Sight-Screener and the Sloan Letter Chart.

THE COMPREHENSIVE SCHOOL—Robin Pedley—Penguin, 222 p., paper, 95¢. A study of the comprehensive school in England and Wales, describes among other things just what the controversial eleven-plus examination is and does.

CORRESPONDENCE BETWEEN SPENCER FULLERTON BAIRD AND LOUIS AGASSIZ: Two Pioneer American Naturalists—Elmer Charles Herber, Ed.—Smithsonian Inst., 237 p., illus., \$5. This collection of 297 letters brings together all their known correspondence.

CREATIVE MATHEMATICS—H. S. Wall—Univ. of Tex. Press, 189 p., \$5. Intended as a sketchbook to lead the student to learn the art of mathematics and teach him to create mathematical ideas.

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH: Report of the Research Council for the Year 1962—Sir Harold Roxbee Cox, Chmn.—H.M.S.O. (Brit. Inform. Services), 62 p., paper, 80¢. Reviews British government-sponsored research and activities.

EDUCATORS GUIDE TO FREE FILMS—Mary Foley Horkheimer and John W. Diffor, Eds.—Educators Progress Service, 23rd ed., 661 p., paper, \$9. Annotated listing of 4,479 titles arranged by subject, with title index, subject index and source index.

THE FEDERAL GOVERNMENT AND EDUCATION: Report—Edith Green, Chmn., Special Subcommittee on Education—Committee on Education and Labor, 176 p., tables, paper, single copies free upon request direct to Committee, U.S. Congress, Washington 25, D. C. Survey and analysis of the extent and effectiveness of Federal aid to education. Indexed.

HEROES OF THE SKIES—Edwin P. Hoyt—Doubleday, 160 p., illus. by George J. Zaffo, \$2.95. About the pioneering men and women who have flown successful and fatal missions in the air, for young people.

INTEGRATING PRINCIPLES OF SOCIAL PSYCHOLOGY—Joseph B. Cooper and James L. McGaugh—Schenkman Pub. Co., 320 p., \$7.50. Textbook unique in its detailed treatment of animal, as well as human social behavior, giving a comprehensive view of the process of adaptation to environment.

THE INTEGRITY OF THE PERSONALITY—Anthony Storr—Penguin, 186 p., paper, 95¢. Psychotherapist's attempt to define in simple terms the basic hypotheses upon which the understanding of human personality rests.

AN INTRODUCTION TO POLYMER CHEMISTRY—W. R. Moore—Aldine Pub. Co., 270 p., illus., \$7.50. Intended to serve both as an introduction for those beginning study and research on this subject and as a general survey for those interested in this rapidly expanding field.

INTRODUCTORY COLLEGE MATHEMATICS—Adele Leonhardy—Wiley, 2nd ed., 487 p., \$7.50. Designed primarily for the college student who does not plan to specialize in mathematics or the related sciences.

MEMORY AND FORGETTING—Jean-Claude Filloux, transl. from French by Douglas Scott—Walker & Co., 152 p., \$3.50. On the different forms of remembering, evocation of memories, fixation and forgetfulness, and diseases of memory.

THE MINDS OF ROBOTS: Sense Data, Memory Images and Behavior of Conscious Automata—James T. Culbertson—Univ. of Ill. Press, 466 p., diagrams, \$10. Author presents a physical theory of mental

experience by attempting to show how subjective phenomena can be constructed out of impulses passing through artificial "neurons."

THE MORPHOLOGY AND CLASSIFICATION OF SOME CERAMIACEAE AND RHODOMELACEAE—Max H. Hommersand—Univ. of Calif. Press, 366 p., illus., paper, \$4. The present study was undertaken to provide a better understanding of the relationships among the families of the Ceramiales and the classification of taxa.

MOTION PICTURE PRODUCTION FACILITIES OF SELECTED COLLEGES AND UNIVERSITIES—Don G. Williams and Luella V. Snyder—OE (GPO), 345 p., illus., paper, \$1.25. Account of a survey made by the University Film Foundation, providing detailed and systematic information about the administration and facilities of university film units.

OUTER SPACE IN WORLD POLITICS—Joseph M. Goldsen, Ed.—Praeger, 180 p., \$5. A group of sociologists, political scientists and economists assess the political impact of the first five years of the space age.

PHYSICS FOR THE MODERN WORLD—E. N. da C. Andrade, foreword by Sir Sarvepalli Radhakrishnan—Barnes & Noble, 100 p., illus., \$2; paper, 95¢. Deals with the physical science concerned with the properties and behavior of bodies in which no chemical change is taking place.

PICTORIAL ANATOMY OF THE FETAL PIG—Stephen G. Gilbert—Univ. of Wash. Press, 45 p., illus., paper, \$2.25. Designed to serve as a guide for students who dissect the fetal pig as a part of their college work in biology or zoology.

PRINTED AND INTEGRATED CIRCUITRY: Materials and Processes—T. D. Schlach and D. K. Rider—McGraw, 420 p., illus., \$13.50. Comprehensive guide and reference on the properties of insulating and ceramic substrates, processes leading to printed circuit assembly, the decision making aspects of the subject, and information on printed and integrated circuitry.

PROBABILITY AND CERTAINTY—Emile Borel, transl. from French by Douglas Scott—Walker & Co., 145 p., \$3.50. An examination of the various aspects of the probable and the certain, in repeated trials, probabilities of causes, from the mathematician's and astronomer's points of view.

PROGRESS AND DECLINE: The Group in Evolution—Hugh Miller—Ward Ritchie Press, 287 p., \$10. Investigates the current shift to group-science, group theories, evolutionary progress of groups and group processes in civilization.

THE STUDY OF MAN: The Lindsay Memorial Lectures, 1958—Michael Polanyi—Univ. of Chicago Press, 102 p., paper, \$1.25. Reprint of three lectures on understanding ourselves, on the calling of man, and on understanding history.

THE TECHNOLOGY OF FOOD PRESERVATION—Norman W. Desrosier—Avi Pub. Co., rev. ed., 405 p., illus., \$9.50. Textbook on the principles and applications of food preservation methods, such as refrigeration, freezing, drying, canning, irradiation and additives.

TEMPERATURE CONVERSION TABLE—Air Products and Chemicals, Inc., 11" x 25 1/2" wall chart, single copies free upon request direct to publisher, Dept. SK, Allentown, Pa. Shows 400 conversions for Fahrenheit, Centigrade, Kelvin and Rankine.

TEXTBOOK OF MEDICINE—Cecil-Loeb; Paul B. Beeson and Walsh McDermott, Eds.—Saunders, 11th ed., 1,835 p., illus., 60 p. index, \$19.50; in two vols. \$23.50. Authoritative, precise and concise presentation of what is currently known about the diseases, each one covered by an expert in the field.

TO SAVE YOUR LIFE—Natalie Davis Spingarn—Little, 213 p., illus. by Marvin Waller, \$3.95. About the men and women of the U.S. Public Health Service and the job they do; for young people.

USARP: United States Antarctic Research Program—National Science Foundation, 32 p., photographs, map, paper, free upon request direct to publisher, Washington 25, D. C. Handsomely illustrated pamphlet, explains the current U.S. scientific effort in the Antarctic.

U.S. GOVERNMENT ORGANIZATION MANUAL 1963-64—Office of the Federal Register—GSA (GPO), rev. ed., 783 p., paper, \$1.75. Official handbook, describes agencies in the legislative, judicial and executive branches of the government, quasi-official agencies and selected international organizations; appendix describes abolished or transferred agencies.

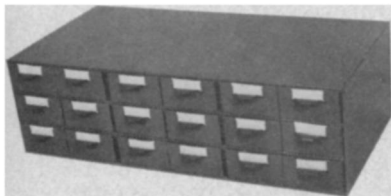
VACUUM MICROBALANCE TECHNIQUES, Vol. 3—Klaus H. Behndt—Plenum Press, 215 p., illus., \$9.50. Proceedings of the Los Angeles Conference, October 30, 1962.

WEIGHTS AND MEASURES: An Informal Guide—Stacy V. Jones—Public Affairs Press, 141 p., \$3.50. Up-to-date dictionary of terms, including those of the nuclear and space age, intended primarily for the layman and student.

WILDLIFE IN BRITAIN—Richard Fitter—Penguin, 191 p., 67 photographs, paper, \$1.95. A general account of the wildlife in the British Isles and of the natural history movement that has grown up to study and conserve it.

• Science News Letter, 84:76 Aug. 3, 1963

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