

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.

ABOVE ALL A PHYSICIAN: René Théophile Laennec, 1781-1826—Jeanne Carbonnier—*Scribner*, 178 p., \$2.95. Biography of the inventor of the stethoscope, his contributions to French medicine.

ADVANCES IN AGRONOMY, Vol. 13—A. G. Norman, Ed.—Academic Press, 386 p., illus., \$12. Reviews research progress in soil and crop science and developments in agronomic practice.

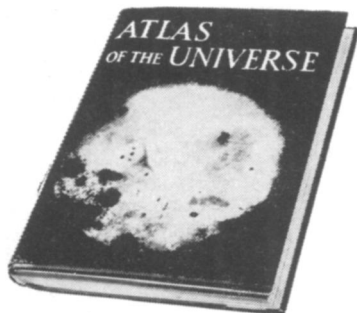
THE AMERICAN EPHEMERIS AND NAUTICAL ALMANAC: For the Year 1963—Nautical Almanac Office—United States Naval Observatory (GPO), 518 p., \$4. Essential handbook for astronomers and navigators.

AMERICAN GOVERNMENT: Theory, Politics, and Constitutional Foundation—Peter H. Odegard and others—Holt, 468 p., illus., paper, \$4. Text, prepared especially for students in a television class.

AMERICAN GOVERNMENT: Documents and Readings—Peter H. Odegard and Victory Rosenblum, Eds.—Holt, 247 p., paper, \$2.50. Contains public papers, analyses, and statements gathered together for a television class.

THE ANCIENT SUN KINGDOMS OF THE AMERICAS—Victor Wolfgang von Hagen—World Pub., reprint 617 p., illus. by Alberto Beltran, \$12.50. Tells about the culture and civilization of the Aztec, Maya and Inca Indians.

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ANIMALS AS SOCIAL BEINGS—Adolf Portmann, transl. from German by Oliver Coburn—Viking, 249 p., illus., \$6. Gives examples of social organization among many animals from ants to apes.

AROUND THE WORLD WITH DARWIN—Millicent E. Selsam—Harper, 47 p., illus. by Anthony Ravielli, \$2.95. Introduces Darwin's historic journey to the young reader.

AN ATLAS OF THE MOON'S FAR SIDE: The Lunik III Reconnaissance—N. P. Barabashov and others, transl. from Russian by Richard B. Rodman (Harvard)—Interscience, 143 p., illus., \$7. First photographs of the moon's far side, results of the analysis and catalogue of formations observed.

THE AUDUBON BOOK OF TRUE NATURE STORIES—John K. Terres, Ed.—Crowell, reprint, 294 p., illus. by Walter W. Ferguson, \$5.95. Collection of selected writings from the Audubon magazine about wild animals.

BASIC PHYSICS OF THE SOLAR SYSTEM—V. M. Blanco and S. W. McCuskey—Addison-Wesley, 307 p., illus., \$7.50. Concise presentation of some of the basic physical aspects of the solar system.

BASIC SCIENCE HANDBOOK K-3—Wilbur L. Beauchamp and Helen J. Challand—Scott, 352 p., illus., \$3.20. For the inexperienced as well as the experienced teacher. Gives new ideas and approaches for teaching science in kindergarten through grade 3.

BETWEEN OXUS AND JUMNA—Arnold J. Toynbee—Oxford, 211 p., illus., \$5. The well known historian tells about a journey in India, Pakistan and Afghanistan.

BIOLOGY: Its Principles and Implications—Garrett Hardin—Freeman, 682 p., illus. by Evan L. Gillespie, \$8. A college text.

BUILDING BLOCKS OF THE UNIVERSE—Isaac Asimov—Abelard-Schuman, rev. ed., 280 p., illus., \$3.50. About the 102 chemical elements so far discovered. For young people.

COMBAT MISSILEMAN—James Baar and William E. Howard—Harcourt, 244 p., illus., \$4.75. By two newspapermen attached to the trade magazine "Missiles and Rockets."

EAT NOT THIS FLESH: Food Avoidances in the Old World—Frederick J. Simoons—Univ. of Wis. Press, 241 p., maps, illus., \$6. Describing unusual food prejudices in Ethiopia.

87 WAYS TO HELP YOUR CHILD IN SCHOOL—William H. Armstrong—Barron's Educ. Series, 214 p., \$4; paper \$1.95. Parents' guide to simple practices in the home that will aid their children and the teacher in school.

MATH IS FUN

By Joseph Degrazia, Ph.D.

CONTENTS: Trifles—On the Borderline of Mathematics—Faded Documents—Cryptograms—How Old Are Mary and Ann?—Wolf, Goat and Cabbage—and Other Odd Coincidences—Clock Puzzles—Trouble Resulting from the Last Will and Testament—Speed Puzzles—Railroad Shunting Problems—Agricultural Problems—Shopping Puzzles—Whimsical Numbers—Playing with Squares—Miscellaneous Problems—Problems of Arrangement—Problems and Games—Solutions.

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ESSAY ON ATOMISM: From Democritus to 1960—Lancelot Law Whyte—Wesleyan Univ. Press, 108 p., \$2.95. A philosopher describes the evolution of atomic ideas for high school students of physics and chemistry.

THE FIRST BOOK OF AIR: A Basic Guide to the Earth's Atmosphere—David C. Knight—Watts, F., 67 p., illus., \$1.95. Contains air experiments for the young reader to do.

THE FIRST BOOK OF ARCHITECTURE—Lamont Moore—Watts, F., 82 p., illus., \$1.95. Discusses examples of architecture for worship, living, earning and governing, pleasure and learning.

THE FIRST BOOK OF PHYSICAL FITNESS—John Walsh, Statement by President John F. Kennedy—Watts, F., 63 p., illus. by Julio Grandia, \$1.95. Gives young people a program for achieving and maintaining fitness.

THE FIRST BOOK OF TEACHING MACHINES—Sam and Beryl Epstein—Watts, F., 50 p., illus., \$1.95. About devices to help students increase the speed and thoroughness of learning.

FREEDOM IN THE ANCIENT WORLD—Herbert J. Muller—Harper, 360 p., map, illus., \$7.50. Presents the history of early man and of the succeeding civilizations and empires.

FUNDAMENTALS OF SCIENTIFIC MATHEMATICS—George E. Owen—Johns Hopkins Press, 274 p., illus., \$5. Text for a one-year preparatory course in mathematics for high school seniors.

THE GARDENER'S REMINDER—Dorothy H. Jenkins—Crown, unpagged, illus. by Gottsch-Schleisner, \$1.50. A pictorial engagement calendar for 1962 with week-to-week suggestions.

GENERAL BIOLOGY: Laboratory Guide—Magnus Olson and others—Burgess, 2nd ed., 323 p., illus., paper, \$4.25. Prepared for use in the general biology course at the University of Minnesota.

GEOMETRY THROUGH PRACTICAL APPLICATIONS—Julio A. Mira—Barnes & Noble, 280 p., illus., \$1.75. Shows how to use geometry in everyday situations.

GREAT HORSE STORIES—Pamela MacGregor-Morris—Hill and Wang, 223 p., illus. by Susan Pares, \$3.50. Collection of horse and pony stories selected from classical and modern fiction for the young reader.

A GUIDE TO FORTRAN PROGRAMMING—Daniel D. McCracken—Wiley, 88 p., paper, \$2.95. To aid in the use of a computer for problems in science and engineering.

HEREDITY—David M. Bonner—Prentice-Hall, 112 p., illus., \$2.95; paper, \$1.50. About the gene and what it does.

HORMONES IN BLOOD—C. H. Gray and A. L. Bacharach, Eds.—Academic Press, 655 p., \$20. Gives survey of the different hormones, and methods of their determination in blood and in other body fluids.

HUMAN GENETICS: Principles and Methods—Ching Chun Li—McGraw, 218 p., \$8.50. From the University of Pittsburgh.

THE INCANDESCENT LIGHT: A review of its Invention and Application—Floyd A. Lewis: edited by Henry H. Urrows; foreword by

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Walker L. Cisler—*Shorewood Pubs.*, 128 p., illus., \$2.95. The story of Thomas Alva Edison's greatest achievement.

ISLAND OF THE LOST—Paul Fenimore Cooper—*Putnam*, 256 p., map, \$4. Story of an arctic island from its rise from the sea after the last Ice Age down to the present.

JOSEPH PRIESTLY: Pioneer Chemist—Rebecca B. Marcus—Watts, F., 145 p., illus. by Peter Costanza, \$1.95. A biography for the young reader.

LABORATORY MANUAL OF VERTEBRATE EMBRYOLOGY—Roberts Rugh—*Burgess*, 5th rev. ed., 281 p., illus., paper, \$4. Containing an entirely new section on the early development of the mouse.

THE LAND SNAIL GENUS AMPHIDROMUS: A Synoptic Catalogue, Fieldiana; Zoology, Vol. IV, No. 4—Frank Fortescue Laidlaw and Alan Solem—*Chicago Natural Hist. Mus.*, 68 p., illus., paper, \$4.50. Based mainly on specimens at the Chicago Natural History Museum.

LICHEN HANDBOOK: A Guide to the Lichens of Eastern North America—Mason E. Hale, Jr.—*Smithsonian Inst.*, 178 p., illus., \$4. Authoritative semipopular introduction to lichens.

LIFE'S KEY—DNA: A Biological Adventure Into the Unknown—Carleen Maley Hutchins—*Coward-McCann*, 64 p., illus., \$2.50. Introduces facts about DNA and the role it plays in heredity.

THE LIVING WORLD OF THE BIBLE—M.-J. Steve—*World Pub.*, 231 p., illus., \$12.50. Beautifully illustrated guide to the Old Testament, utilizing recent archaeological research.

THE MACHINERY OF THE BODY—Anton J. Carlson, Victor Johnson and H. Mead Cavert—*Univ. of Chicago Press*, 5th rev. ed., 752 p., illus., \$6.50. A college text.

MANAGEMENT GAMES: A New Technique for Executive Development—Joel M. Kibbee, Clifford J. Craft and Burt Nanus—*Reinhold*, 347 p., illus., \$10. A method for developing leadership in business.

MOLECULAR SIEVES—Charles K. Hersh—*Reinhold*, 129 p., illus., \$6.50. Reviews information on use of zeolites in chemical industry.

NIGERIAN FOLK TALES—Barbara K. and Warren S. Walker—*Rutgers Univ. Press*, 113 p., illus. by Margaret Barbour, \$4. Legends revealing the beliefs, morals and social attitudes of Nigeria.

ORIGINS OF THE TVA: The Muscle Shoals Controversy, 1920-1932—Preston J. Hubbard—*Vanderbilt Univ. Press*, 340 p., \$6. "Objective account" of the struggles which resulted in the creation of the TVA.

THE PFIZER HANDBOOK OF MICROBIAL METABOLITES—Max W. Miller—*McGraw*, 772 p., illus., \$15. A reference work for scientists.

PLANETS AND SATELLITES—Gerard P. Kuiper and Barbara M. Middlehurst, Eds.—*Univ. of Chicago Press*, 601 p., illus., \$12.50. A reference work for astronomers.

PROBABILITY AND EXPERIMENTAL ERRORS IN SCIENCE: An Elementary Survey—Lyman G. Parratt—*Wiley*, 255 p., illus., \$7.25. Shows the relationship of statistics and probability theory to problems in modern physical science.

PROTECTIVE CONSTRUCTION IN A NUCLEAR AGE, Vols. I & II—J. J. O'Sullivan, Ed.—*Macmillan*, 460 p., illus., \$25. Papers from the proceedings of the Second Protective Construction Symposium held in March 24-26, 1959, in Santa Monica, Calif.

RADIOASTRONOMY AND RADAR—J. G. Crowther—*Criterion Bks.*, 144 p., illus. by David D. A. Hardy, photographs, \$3.50. To give the general reader an account of a new science which has arisen within the last 20 years.

RIVERS—Irving and Ruth Adler—*Day*, 48 p.,

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SCIENCE AND THE FORESTER—Leslie Wolff: Edited by Iris Vinton; Line drawings by Kerry Lee—*Criterion Bks.*, 194 p., illus., \$3.95. About a forester and his interest in trees.

A SHORT HISTORY OF NORTH AFRICA: Libya, Tunisia, Algeria and Morocco from Pre-Roman Times to the Present—Jane Soames Nickerson—*Devin-Adair*, 252 p., map, \$4.50.

SOME RECENT DEVELOPMENTS IN THE CHEMISTRY OF PHOSPHATE ESTERS OF BIOLOGICAL INTEREST—H. Gobind Khorana—*Wiley*, 141 p., diagrams, \$5.25. Based on a series of lectures at the Rockefeller Institute in the spring of 1959.

SPLendor IN THE SKY—Gerald S. Hawkins—*Harper*, illus., \$5.95. Abundantly illustrated review of astronomy, from ancient star gazing to radio astronomy, written by astronomer for the layman.

SPORES II—H. Orin Halvorson, Ed.—*Burgess*, 296 p., illus., \$4.50. A symposium held at Al-lerton Park, Ill., October 22-23, 1960 under the auspices of the University of Illinois and with the support of the office of Naval Research.

THE STRUCTURE AND FUNCTIONS OF AMERICAN GOVERNMENT: First Semester Study Guide—Peter H. Odegard—*Holt*, 60 p., paper, \$1. Presents topics for essays and discussions.

TEEN-AGE TREASURY OF OUR SCIENCE WORLD—Seon Manley and Gogo Lewis, Eds.—*Funk*, 335 p., illus., \$4.95. Contains short stories, poetry, essays, selections from biographies and novels for the young reader.

TRAITOR WITHIN: Our Suicide Problem—Edward Robb Ellis and George N. Allen—*Doubleday*, 237 p., graphs, \$3.95. A journalistic discussion of suicide during the past 15 years in America.

TREATISE ON INVERTEBRATE PALEONTOLOGY, Part Q, Arthropoda 3, Crustacea, Ostracoda—Raymond C. Moore, Ed., Asst. by Charles W. Pitra—*Geol. Soc. of Am.*, 442 p., illus., \$11.50. Seeking to organize what has been learned up to the mid-point of the present century.

THE 26 LETTERS—Oscar Ogg—*Crowell*, reprint, 262 p., illus., \$5.50. Tells about the beginning of writing, invention of type, printing and the alphabet, and contains new "dictionary index."

UNIT OPERATIONS OF SANITARY ENGINEERING—Linvil G. Rich—*Wiley*, 308 p., illus., \$10.75. A college text.

THE WATCH REPAIRER'S MANUAL—Henry B. Fried—*Van Nostrand*—2nd rev. ed., 310 p., illus., \$6.95. Up-to-date material for the watchmaker.

THIS DIFFICULT INDIVIDUAL, EZRA POUND—Eustace Mullins—*Fleet Pub.*, 388 p., photographs, \$5. Because of the poet's long residence at St. Elizabeth's Hospital, this book has medical as well as literary interest.

WHY: A Book of Reason—Irving and Ruth Adler—*Day*, 48 p., illus., \$2. For the young reader. Presents questions and answers from, "Why does a dog's tongue hang out when the dog is hot?" to "Why does gasoline burn, but water does not?"

WILD ORPHAN—Glen Rounds—*Holiday*, un-paged, illus. by author, \$2.95. A beaver's struggle to survive.

THE WONDER OF HEAT ENERGY: A Picture Story of the Vital Part Heat Plays in Our World—Hy Ruchlis—*Harper*, 186 p., illus. by Alice Hirsh, photographs, \$3.95. Describes aspects of heat energy, in nature and in industry, in non-technical language.

• Science News Letter, 80:244 October 7, 1961

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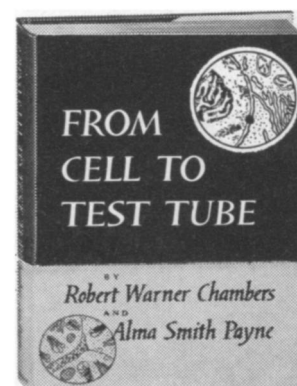
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