Books of the Week

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THE AAAS SCIENCE BOOK LIST FOR CHIL-THE AAAS SCIENCE BOOK LIST FOR CHIL-DREN—Hilary J. Deason, Dir., Nora Beust, Con-sultant—AAAS, 2nd ed., 201 p., \$2.50; paper \$1.50. Annotated guide to recreational and collateral reading in the sciences for elementary school students including the eighth grade.

THE ADIABATIC MOTION OF CHARGED PAR-TICLES—Theodore G. Northrop, foreword by Edward Teller—Interscience, 109 p., diagrams, \$5.95. Focuses attention on the orbits of individual charged particles, a basic step in the development of plasma physics.

AERONAUTICS AND SPACE BIBLIOGRAPHY FOR THE SECONDARY GRADES—National Aerospace Educ. Council—GPO, 2nd ed., 50 p., paper, 35¢. Annotated bibliography compiled for NASA.

ALEXANDER GRAHAM BELL: Man of Sound— Elizabeth Rider Montgomery—Garrard, 80 p., illus, by Gray Morrow, \$2.50. For very young readers.

AMISH SOCIETY—John A. Hostetler—Johns Hopkins Press, 347 p., photographs, \$6.50. Deals with a rural segment of society which has chosen to live by fixed social customs in the midst of a changing machine civilization.

ANIMAL GROWTH AND DEVELOPMENT: BSCS Laboratory Block—Florence Moog—Heath, 83 p., illus., paper, \$1.32. Provides for investigation in depth of a specific topic in biology, on the high school

BEETLES—Wilfrid S. Bronson—Harcourt, 160 p., illus. by author, \$3.25. A book for the amateur entomologist.

BEFORE THE WIND: A Study of the Response to Hurricane Carla—Harry Estill Moore and others, foreword by Robert F. Shea—NAS-NRC, 164 p., illus., paper, \$2. First major study of a large-scale pre-disaster evacuation.

BEYOND THE MELTING POT: The Negroes, Puerto Ricans, Jews, Italians and Irish of New York City—Nathan Glazer and Daniel Patrick Moynihan—M.I.T. Press & Harvard Univ. Press, 360 p., \$5.95. A scholarly effort to trace the role of ethnic groups in the complex life of New York City.

BREAKTHROUGHS IN MATHEMATICS—Peter Wolff—New Am. Lib., 285 p., diagrams, paper, 75¢. Original paperback, examines 2,200 years of unique contributions to the history of mathematics, from Euclid to Boole.

CANCER OF THE BREAST. CANCER OF THE SKIN. CANCER OF THE UTERUS—National Cancer Institute—PHS, rev. eds., folders, single copies free upon request direct to Public Health Service, Washington 25, D. C. Three popular pamphlets describing the nature, cause and prevention, detection and treatment of cancer at different body sites.

THE CARE OF THE EARTH: A History of Husbandry—Russell Lord—New Am. Lib., 384 p., illus., by Kate Lord, paper, 95¢. A study of the relationship of man, civilization and nature.

CINEMICROGRAPHY IN CELL BIOLOGY-corge G. Rose, Ed.—Academic Press, 500 p., illus George G. Rose, Ed.—Academic Press, 500 p., illus., \$18.50. Organizes data from many disciplines, discussing cinemicrographic techniques, special methods

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COMMON SENSE CORONARY CARE...AND PREVENTION—Peter J. Steincrohn—Holt, 237 p., \$3.95. Attempts to give the reader a practical understanding of coronary ailments.

standing of coronary ailments.

THE COMPLEMENTARITY OF STRUCTURE
AND FUNCTION: BSCS Laboratory Block—A. Glenn
Richards—Heath, 78 p., illus., paper, \$1.32. Provides for the investigation in depth of a specific topic
in high school biology, developed by the Committee
on Innovation in Laboratory Instruction of the Biological Sciences Curriculum Study.

logical Sciences Curriculum Study.

CULTURE AGAINST MAN—Jules Henry—Random House, 495 p., \$7.95. About contemporary American culture, describes and interprets its economic structure and values, and the complex interrelationships of parent-child relations, teenage problems, schools, emotional breakdown, old age and war.

schools, emotional breakdown, old age and war.

THE DAWN OF A NEW AGE: Reflections on Science and Human Affairs—Eugene Rabinowitch—Univ. of Chicago Press, 332 p., \$6.95. Essays by biophysicist who believes that science rather than ideology is the great force shaping our age, urging responsible politicians and an informed public to use their influence so that the contest for world scientific leadership may be converted toward cooperation, with both moral and material benefits to mankind.

DIALOGUES CONCERNING TWO NEW SCIENCES—Galileo Galilei, transl. by Henry Crew and Alfonso de Salvio—McGraw, 288 p., illus., paper, \$2.95. First published in 1914.

\$2.95. First published in 1914.

EXPLORING OUR NATIONAL WILDLIFE REFUGES—Devereux Butcher—Houghton, 2nd rev. ed., 340 p., 340 photographs, \$6.50. A beautiful volume designed to acquaint the public with some of the rarer specimens of animal life that need protection in their natural habitats in order to preserve species that "represent end products of two and a half billion years of evolution."

billion years of evolution."

FRANK H. KRUSEN, M.D.: Pioneer in Physical Medicine and Rehabilitation—Mabel Otis Robison, introd. by Dr. Charles Mayo—Denison, 240 p., \$3.50. Biography for young people.

A GARDENER'S BOOK OF PLANT NAMES: A Handbook of the Meaning and Origins of Plant Names—A. W. Smith—Harper, 428 p., \$5.95. A handbook of derivations, meanings and uses of more than 4,000 botanical names, with cross-index of common names.

botanical names, with cross-index of common names.

GREAT ENGINEERS—L. T. C. Rolt—St. Martins, 244 p., photographs, \$4.95. Ten biographies tell the story of the industrial revolution in England, between Darby's coke smelting discovery in the 17th century and Lanchester's contributions to the science

GREGOR MENDEL and Heredity—Robe Webb—Watts, F., 114 p., illus., \$2.95. J biography in the "Immortals of Science" series.

A HISTORY OF LAND TRANSPORTATION:
Vol. 7 of the New Illustrated Library of Science and
Invention—Maurice Fabre—Hawthorn Bks., 112 p.,
designed by Erik Nitsche, 50 p. illus., \$5.95. Handsomely presented history, particularly rich in illustrations from European museums.

HOMAGE TO STANDLEY: Papers in Honor of Paul C. Standley—Louis O. Williams, Ed.—Chicago Nat. Hist. Mus., 115 p., photographs, paper, \$1. Letters and memories of fellow botanists, in English and Spanish language.

INTERNATIONAL REVIEW OF NEUROBIOL-OGY, Vol. 5—Carl C. Pfeiffer and John R. Smythies —Academic Press, 439 p., illus., \$14. About the behavior of mammalian brain cells in culture, activity of primary sensory cortex, ion fluxes in the central nervous system, and neurological control of appetite.

AN INTRODUCTION TO CYBERNETICS—W. oss Ashby—Science Editions, 295 p., diagrams, per, \$1.65. Reprint (1956), intended to provide understanding of the principles and techniques, thillustrations and examples mostly taken from the biological sciences

KARL FRIEDRICH GAUSS: Theory of the Motion of the Heavenly Bodies Moving about the Sun in Conic Sections—Theoria Motus, transl. with appendix by Charles Henry Davis—Dover, 376 p., illus., logarithmic tables, paper, \$2.95. Reprint (1857).

THE LAND AND PEOPLE OF GHANA—J. Kirk Sale—Lippincott, 159 p., photographs, map, \$3.25. Portrait of the first Negro nation to win its independence in this century.

THE LAND AND PEOPLE OF PERU—J. David Bowen—Lippincott, 160 p., photographs, map, \$3.25. Tells the story of old cultures and new efforts, for young people.

LECTURES IN BIOLOGICAL SCIENCES—Norman G. Anderson and others; J. Ives Townsend, Ed.—Univ. of Tenn. Press, 110 p., paper, \$3. Five

lectures by scientists who have made significant contributions to the study of evolution.

MINERALS AND HOW TO STUDY THEM—The Late Edward Salisbury Dana, rev. by Cornelius S. Hurlbut, Jr.—Science Editions, 3rd ed., 323 p., illus., paper, \$1.45. Reprint (1949).

NATIONAL CONFERENCE ON AIR POLLU-ION: Proceedings, Dec. 1962—Public Health Serve—GPO, 438 p., illus., paper, \$2.75. Discussion experts of the issues of the national problem of r pollution and the views of local and state agencies.

THE NATURE OF THE BEAST—T. Murray Smith—Coward-McCann, 206 p., photographs, \$4.50. First-hand observations of East African wildlife by a camera-hunting game conservationist.

THE PLANTS—Frits W. Went and The Editors of LIFE—Time Inc., 194 p., illus., 66 p. in full color, \$3.95. direct to Time Book Div., 540 N. Mich. Ave., Chicago 11, Ill. Expertly summarizes and behavior of plants.

and behavior of plants.

POWER SYSTEMS FOR SPACE FLIGHT—

Morris A. Zipkin and Russell N. Edwards, Eds.—

Academic Press, 943 p., illus., \$13.50. Discusses selection of power systems, chemical and solar power, heat transfer, storage and rejection, and high-temperature power systems.

REALMS OF WATER: Some Aspects of Its Cycle Nature—P. H. Kuenen—Science Editions, 327, illus, paper, \$1.95. Reprint (1955), gives an account of the scientific facts known about water in the oceans, atmosphere, solid state, ground and

SCIENCE AWAKENING—B. L. Van der Waerden, transl. from Dutch by Arnold Dresden—Science Editions, 306 p., illus, paper, \$2.65. Emphasis is on the history of mathematics and its developments in Egypt, Babylonia and Greece.

SCIENCE IN RUSSIAN CULTURE: A History to 1860—Alexander Vucinich—Stanford Univ. Press, 463 p., \$10. Biographical, disciplinary and institutional analysis of the formative years of Russian science that preceded its flowering in the nineteenth century.

century.

SCIENCE IN THE COLLEGE CURRICULUM—

Robert Hoopes, introd. by Alan T. Waterman—Oakland Univ., 211 p., \$2 direct to publisher, Rochester, Mich. Formal papers and commentary, summaries and recommendations of discussion groups of 1962 Conference on Education in Science for the Undergraduate Non-Science Concentrator.

graduate Non-Science Concentrator.

THE SEAS: Our Knowledge of Life in the Sea and How It Is Gained—F. S. Russell and C. M. Yonge—Warne, rev. ed., 376 p., illus., 127 plates, \$7.95. Updated edition of concise popular work.

THE SILKEN ANGELS: A History of Parachuting—Martin Caidin—Lippincott, 264 p., photographs, \$4.95. Tells about the men who used parachutes, the stunt and the test jumpers, and the airmen during war time.

war time.

THE STORY OF INSULIN: Forty Years of Success Against Diabetes—G. A. Wrenshall, G. Hetenyi and W. R. Feasby; foreword by R. D. Lawrence—Indiana Univ. Press, 232 p., photographs, \$4.75. Authentic story of the research and clinical experience with simulia. with insulin.

Authents story of the reserven and chinical experience with insulin.

SUPPLEMENT NO. 1 TO PHOTOCOPYING FROM BOUND VOLUMES—William R. Hawken—Library Technology Project, A.L.A., 32 p., illus., paper, \$2. Describes and evaluates the Ducostat and the 3M "107" book copiers.

THE SWISS AND THEIR MOUNTAINS: A Story of the Influence of Mountains on Man—Sir Arnold Lunn—Allen & Unwin (Rand McNally), 159 p., illus., \$6.95. An essay tracing the history of the influence of the Alps on the Swiss people and the pioneering feats of the Swiss Alpine Club.

TV SYNC AND DEFLECTION CIRCUITS—Thomas M. Adams—Sams, 160 p., diagrams, paper, \$2.95. Explains the action of the various circuits used in the sync and deflection sections of typical TV receivers.

THIN-LAYER CHROMATOGRAPHY-Randerath, transl. from German by D. D. Libman—Academic Press, 250 p., illus., \$8. Monograph reviews what has been achieved to date with thin-layer chromatography, including concise laboratory manual

views what has been achieved to date with thin-layer chromatography, including concise laboratory manual of special applications.

THIS IS LIFE: Essays in Modern Biology—Willis H. Johnson and William C. Steers, Eds.—Holt, 354 p., illus, paper, \$3.95. Designed as collateral reading for beginning college students, on advances in photosynthesis, ultrastructure of cells in relation to function, the concept of the gene, and plant and animal morphogenesis.

animal morphogenesis.

THE UNITED STATES AND THE AFRICAN SLAVE TRADE, 1619-1862—Peter Duignan and Clarence Clendenen—Hoover Institution, 72 p., paper, \$1.50. Monograph shows the slave trade as an important economic and cultural factor in the formative days of the United States, and how it affected U.S. relations with the European powers.

VENEZUELAN ARCHAEOLOGY—Irving Rouse and Jose M. Cruxent—Yale Univ. Press, 179 p., 55 plates, illus., \$7.50. Anthropologists' interpretive synthesis of the archaeology of tropical lowland South America, from Paleo-Indian epoch through the Neo-Indian to the Indo-Hispanic epoch.

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