

Books of the Week

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AERODYNAMIC THEORY: A General Review of Progress, Vols. I-VI—William F. Durand, Ed.-in-Chief—Dover, 398 p., 367 p., 354 p., 434 p., 347 p., 286 p., diagrams, paper, \$2.25 each. Reprint (1934-36) of work by leading authorities, providing student and aeronautic designer with theoretical and experimental background to aerodynamics.

ANTHROPOLOGY—Samuel Rappaport and Helen Wright; Joseph Bram, Ed.—N.Y. Univ. Press, 332 p., \$4.95. Twenty expert papers, giving the general reader a sampling of the various aspects of the study of man's evolution and cultural development.

APPLIED KINEMATICS—Kurt Hain, transl. from German, ed. by Douglas P. Adams and Thomas P. Goodman—McGraw, 2nd ed., 727 p., illus., \$25. Written by leading German practitioner from the viewpoint of practicing engineers, the book makes available the systematic synthesis techniques that have made the Germans outstanding in the development of mechanisms for high-speed automatic machinery.

ATOMIC COLLISIONS: The Theory of Electron-Atom Collisions—V. Ya. Veldre, Ed.-in-Chief, transl. from Russian by M. V. Kurepa—M.I.T. Press, 136 p., diagrams, \$7.50. Contains the results of work done mainly during 1960-1961 by scientists of the Latvian SSR Institute of Physics and Leningrad State University.

THE AUTOMOBILE: How It Came, Grew and Has Changed Our Lives—Frank Ernest Hill—Dodd, 212 p., plates, diagrams, \$3.75. Traces the growth of the automotive industry and its effect on the American scene and economy.

BIOLOGY—Samuel Rappaport and Helen Wright; Harry A. Charipper, Ed.—N.Y. Univ. Press, 268 p., illus., \$4.95. Collection of essays and articles by scholars in the life sciences, introducing the layman to the laws of living things.

THE CHANGING EARTH—Judith Viorst, introd. by Frank C. Whitmore; preface by Watson Davis—Bantam Bks. (Science Service), 244 p., photographs, illus. by Feodor Rimsky, paper, 75¢. Describes the forces that have molded the earth's changing face through geologic time, the effect of water, wind and earthquakes.

CHARLES SCOTT SHERRINGTON: An Appraisal—Ragnar Granit—Doubleday, 188 p., 14 plates, illus., \$6. A biography of the pioneer neurophysiologist, dealing equally with Sherrington's basic concepts as well as with his work on end organs, nerve impulses and nerve cells, and his experiments concerned with synaptic action and reflexology.

CONFERENCE ON RADIOBIOLOGY AND RADIOTHERAPY—J. A. del Regato, M.D., Chmn. and Ed.—National Cancer Inst. (GPO), 289 p., illus., \$3.25. Explores in depth current areas of radiotherapy considered to have foremost priority and potential for investigation and development.

CONGRESS NEEDS HELP—Philip Donham and Robert J. Fahey, foreword by David Brinkley—Random House, 203 p., \$4.95. Examination of Congress by management consulting experts, recommending within the existing power structure changes that may help Congress to do a more effective job of legislating.

CRITICAL PHENOMENA: Proceedings of a Conference, 1965—M. S. Green and J. V. Sengers, Eds.—NBS (GPO), 242 p., diagrams, \$2.50. Papers and discussion by some 200 scientists from this country and abroad, dealing with phenomena in the neighborhood of critical points.

A DIFFERENT APPROACH TO THERMODYNAMICS—William Fay Luder—Reinhold, 162 p., diagrams, paper, \$2.95. Confined to elementary thermodynamics, with emphasis on spontaneous chemical reactions.

DIRECTION NORTH: A View of Finland—John Sykes—Chilton Bks., 238 p., 16 plates, map, \$5.50. A portrait of Finns at work, in

city and countryside, and as a small independent nation in the postwar world.

ESP IN LIFE AND LAB: Tracing Hidden Channels—Louisa E. Rhine—Macmillan, 275 p., \$5.95. A readable account of aspects of parapsychological research illustrated with dramatic case histories.

FOREST TREES OF THE PACIFIC SLOPE—George B. Sudworth, new foreword by Woodrige Metcalf, new table of changes in nomenclature by E. S. Harrar—Dover, 455 p., illus., paper, \$3. Reprint (1908), deals only with the native trees of the country which drains into the Pacific Ocean.

HOME GUIDE TO PLUMBING, HEATING AND AIR CONDITIONING—George Daniels—Harper, 186 p., illus., \$3.95. A working guide for the do-it-yourself home improver and repair man.

INORGANIC SYNTHESSES, Vol. IX—S. Young Tyree, Jr., Ed.-in-Chief—McGraw, 241 p., illus., \$9.95. Contains about 50 syntheses of current interest, prepared by an international group of contributors.

NATIVE INHERITANCE: The Story of Corn in America—Howard T. Walden 2nd—Harper, 199 p., plates, \$6.95. The story of the development of corn and its products over the past century.

NUCLEAR ASTROPHYSICS—William A. Fowler—Am. Philosophical Soc., 109 p., photographs, diagrams, \$3. Contains the Jayne Lectures for 1965 on the evolution of the chemical elements from the hydrogen nucleus of primordial matter to those that now exist on earth, in our sun and other stars, and in the clustered nebulae.

ONE WORLD OF SCIENCE: Personal Visits to Men of Research in Many Lands—Warren Andrew, M.D.—Thomas, C. C., 271 p., photographs, \$8.75. Informal accounts of visits with well-known scientists, between 1940 and 1962, ranging from the Gorgas Institute for Tropical Medicine in Panama to a visit with Indian anatomist in Jamnagar, India.

PATHS OF DIPLOMACY: America's Secretaries of State—Deane and David Heller—Lippincott, 192 p., plates, \$3.95. Biographical sketches of 20 Secretaries of State who served the country during dramatic periods of U.S. history.

PLANNING U. S. A.—George Soule—Viking Press, 180 p., \$4.95. History of economic planning in the United States, from Hamilton's plan to provide money for the Treasury to planned prosperity and redevelopment.

PLANTS IN TIME: Their History and Mystery—Margaret Cosgrove—Dodd, 63 p., illus. by author, \$3.25. Tells for younger readers the story of the evolution of plants.

THE PROGRAMMER'S ALGOL: A Complete Reference—Charles Philip Lecht, foreword by Robert Bemer—McGraw, 251 p., \$8.95. Detailed reference source, provides the programmer with a description of the language graduated from the simplest to the most complex forms of its elements.

THE PSYCHOLOGY OF BIRDS: An Interpretation of Bird Behavior—Harold E. Burtt—Macmillan, 242 p., illus. by Peter Parnall, \$5.95. Observations by a retired professor of psychology who became a devoted bird-watcher, helping the Federal Wildlife Service band some 17,000 black-birds one winter.

RAND McNALLY'S NATIONAL PARK GUIDE—Michael Frome, foreword by George B. Hartzog, Jr.—Rand McNally, 160 p., illus., maps, \$4.95; paper, \$2.95. A practical guide to all of America's 32 national parks and recreation areas, including flora, fauna, activities and accommodations.

RELIGION AND POLITICS IN HAITI—Harold Courlander and Remy Bastien, preface by Richard P. Schaedel—Institute for Cross-Cultural Research, 81 p., maps, \$3; paper, \$2. Two essays

that attempt to show how voodooism has been inextricably associated with the adventures of the state in Haiti's history.

SANCTUARY POND: A Conservation Piece—Roy E. Walsh—Barre Publishers, 95 p., photographs, \$7.50. The story of what one man's small sanctuary accomplished for waterfowl, when he converted a salt marsh on his farm in Maryland into a draglined pond where birds could feed and rest during their annual migrations.

THE SCURRYING BUSH—R. C. H. Sweeney—Pantheon Bks., 208 p., plates, \$4.95. Personal account of an entomologist's experiences with the animal life of eastern Africa.

SERVICING TV RECEIVER CIRCUITS with Special Color Section—Editors of ELECTRONIC TECHNICIAN—TAB Bks., 224 p., illus., \$6.95. Articles on TV trouble-shooting.

SEX EDUCATION AND THE NEW MORALITY: A Search for a Meaningful Social Ethic—Morton S. Eisenberg, M.D., and others—Child Study Assn. of America (Columbia Univ. Press), 90 p., paper, \$1.95. A panel discussion, probing the psychological and sociological implications and pressures of sexuality and the issues facing parents.

A STUDY OF ARCHEOLOGY—Walter W. Taylor—Southern Ill. Univ. Press, 262 p., illus., paper, \$1.95. First published in 1948, the study examines critically the character of "Americanist" archaeology in the United States and outlines procedures for the conjunctive approach.

THE TEACHER'S SURVIVAL GUIDE—Jenny Gray; James R. Erickson, Consultant—Fearon Pubs., 122 p., drawings, paper, \$2. Experienced teacher's practical advice on how to handle the problems of discipline in a tough public school classroom.

Textbooks

ELECTRIC AND MAGNETIC FIELDS—Stephen S. Attwood—Dover, 475 p., diagrams, paper, \$3. Reprint of 3rd edition (1956) of textbook based on course which the author taught at the University of Michigan.

MECHANICS OF MATERIALS—Alvin Sloane—Dover, 468 p., diagrams, paper, \$2.75. Reprint (1952), textbook for the engineering student, contains more than 500 problems.

A TEXTBOOK OF PHARMACOLOGY—George Edward Trease with Wm. Charles Evans—Baillere (Williams & Wilkins), 9th ed., 821 p., illus., \$14.50. Thorough revision places more emphasis on phytochemistry, including an appendix designed to interest advanced students in the latest phytochemical research.



Art of Argument

By Giles St. Aubyn

Here is a clear, simply written basic guide to logical thinking, showing how to spot the fallacies, the prejudices and emotionalism, the inappropriate analogies, etc., in the other fellow's argument and how to watch for and avoid the irrational in your own judgments. The author makes plain not only *how* but also *why* people resist facing the truth.

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