

Books of the Week

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THE AIR DEVILS: The Story of Balloonists, Barnstormers and Stunt Pilots—Don Dwiggins—Lippincott, 226 p., photographs, engravings, \$4.95. A lively chronicle, partly based on personal recollections.

THE ART OF SHAPING SHRUBS, TREES AND OTHER PLANTS—Tatsuo and Kiyoko Ishimoto—Crown Pubs., 125 p., 200 photographs, \$3.95. Brings together in words and pictures the skillful results of advanced techniques of pruning for ornamental purposes.

THE CATSKILL MOUNTAIN HOUSE—Roland Van Zandt—Rutgers Univ. Press, 416 p., 90 illus., photographs by author, \$12.50. A detailed, annotated study of the great 19th century Hudson Valley hotel, from its beginnings in 1823 through the years when it became a fashionable retreat and social institution, to its decline and present ruin.

CELL DIVISION and the Mitotic Cycle—G. B. Wilson—Reinhold, 111 p., illus., paper, \$1.95. An introduction to contemporary research in the field, in terms understandable to the undergraduate student.

THE CHEMICAL FOMULARY, Vol. XIII—H. Bennett, Ed.-in-Chief—Chemical Pub. Co., 447 p., \$8. A collection of practical commercial formulae and recipes for making products in many fields of industry, for the practicing chemist and student.

CRITICALITY CONTROL OF FISSILE MATERIALS: Proceedings of IAEA Symposium held in Stockholm 1965—IAEA (International Pubs., N.Y.), 755 p., illus., \$15. Discusses developments in administrative and technical procedures for the storage and processing of fissile material under conditions of nuclear safety.

THE EFFECTIVE EXECUTIVE—Peter F. Drucker—Harper, 178 p., \$4.95. An analysis of what determines executive effectiveness and a systematic discussion of how it can be acquired.

ELASTIC ELEMENTS OF INSTRUMENTS—L. E. Andreeva, V. I. Feodos'ev Ed.; transl. from Russian—IPST (Davey, D.), 395 p., illus., \$15. Presents the fundamentals of the theory and design of helical springs, flat springs, bi-metal elements and bourdon tubes.

ELECTRONICS IN OCEANOGRAPHY—L. George Lawrence—Sams, 288 p., illus., paper, \$4.95. Concise description of the modern electronic systems used in physical oceanography, such as sonar transducer, salinometer, marine lasers and other devices.

FANTASTIC TREES—Edwin A. Menninger—Viking Press, 304 p., photographs, \$8.95. In a combination of text and photographs, this book offers a fascinating tour of mostly tropical trees, grouped by the ways they show their eccentric ways of adaptation and behavior.

GREAT IDEAS IN INFORMATION THEORY, LANGUAGE AND CYBERNETICS—Jagjit Singh—Dover, 338 p., illus., paper, \$2. A new work that explores the physical structure and neurophysiological principles of the living brain, and the translation into computer technology of research being done in biophysics, biochemistry, psychology, neurophysiology and linguistics.

HANDBOOK OF MECHANICAL SPECIFICATIONS FOR BUILDINGS AND PLANTS: A Checklist for Engineers and Architects—Robert Henderson Emerick—McGraw, 482 p., illus., \$12.50. A complete guide to specifications writing.

HUMAN EVOLUTION: An Introduction to Man's Adaptations—Bernard G. Campbell—

Aldine Pub. Co., 425 p., illus., \$8.95. Maintaining that evolution is the outcome of homeostatic adjustment to environmental change, the book introduces this new way of looking at the biological meaning of hominid evolution.

INTERDISCIPLINARY INVESTIGATION OF MUCUS PRODUCTION AND TRANSPORT—Sophie Jakowska, Ed.—N.Y. Acad. of Sciences, Annals, Vol. 130. Art. 3, 104 p., illus., paper, \$4. Brings together studies of mucus as a biological product in its natural environment, discussion of analogues of mucociliary systems and of viscoelasticity in the field of biorheology.

LOW TEMPERATURE OXIDATION—W. Jost, Ed.—Gordon & Breach, 412 p., illus., \$22.50. Attempts to present a summary of the results acquired by applying classical kinetic methods to the field of low temperature oxidation.

METROPOLIS ON THE MOVE: Geographers Look at Urban Sprawl—Jean Gottmann and Robert A. Harper, Eds.—Wiley, 203 p., maps, \$6.50; paper, \$3.45. Presents the essence of a conference discussing the major aspects, pressure and impact of the spread of urban development beyond the limits of city boundaries.

NEW PATTERNS IN GENETICS AND DEVELOPMENT—C. H. Waddington—Columbia Univ. Press, 271 p., illus., paper, \$2.95. Reprint (1962).

1965 TECHNICAL HIGHLIGHTS of the National Bureau of Standards: Annual Report, Fiscal Year 1965—GPO, 204 p., illus., paper, 65¢. Reports on program developments and on work in progress at the Institutes for Basic Standards, for Materials Research, for Applied Technology and at the Central Radio Propagation Laboratory.

NO ROOM IN THE ARK—Alan Moorehead, abridged by Lucy Moorehead—Harper, 166 p., plates, illus., map, \$3.95. Record of African safaris, abridged for young readers.

THE ORGANIZATION OF INQUIRY—Gordon Tullock—Duke Univ. Press, 232 p., \$5.50. A study of the processes of research, explaining how the complex system of independence and cooperation works.

PLANS FOR YOUR SUNDIAL—Jesse Simmons—Dial Pubs., 66 p., illus., paper, \$2.50. Tells the hobbyist how to build various types of sundials and related projects.

THE PREVENTION AND CONTROL OF DELINQUENCY—Robert M. MacIver—Atherton Press, 217 p., paper, \$2.95. Author shows that delinquency is caused by a complex interplay of many factors not susceptible to simple solutions, and demonstrates that prevention is far more successful than rehabilitation.

PSYCHOLOGY AND THE HUMAN DILEMMA—Rollo May—Van Nostrand, 221 p., \$5.95. Essays on such themes as personal identity in an anonymous world, and relation of existentialism to psychotherapy.

QUANTUM MECHANICS—Alexandre Sergeevitch Davydov, transl. from Russian by Irene Verona Schensted—NEO Press, Ann Arbor, Mich., 671 p., paper, \$6. Originally published in Russian by Fizmatgiz, Moscow, 1963.

RADAR TECHNIQUES FOR DETECTION TRACKING AND NAVIGATION: Proceedings of the Eighth Symposium of the AGARD Avionics Panel, 1964—W. T. Blackband, Ed.—Gordon & Breach, 608 p., illus., \$37.50. Reviews current radar techniques for the detection and tracking of targets, and their application to navigation.

Textbooks

THE ARCO BOOK OF BIOLOGY: A Comprehensive Study Guide and Review of Biology for High School and College Students—D. G. Mackean—Arco Pub. Co., 192 p., 300 illus., \$5.95. A supplementary text, reference work, suitable for self-study and review, featuring detailed illustrations, experiments and review questions.

THE CHEMICAL BOND: A Brief Introduction to Modern Structural Chemistry—Linus Pauling—Cornell Univ. Press, 267 p., illus., paper, \$3.95. An abridged version of THE NATURE OF THE CHEMICAL BOND, intended especially for the use of students, with added exercises and new section on the molecular-orbital description of the electronic structure of molecules.

INTRODUCTION TO GEOGRAPHY: Selected Readings—Fred E. Dohrs and Lawrence M. Sommers—Crowell, 390 p., diagrams, maps, paper, \$3.95. Systematically organized material suitable for introductory geography courses, includes articles on all the major regions of the earth.

INTRODUCTORY TITRIMETRIC AND GRAVIMETRIC ANALYSIS—Evelyn M. Rattenbury—Pergamon Press, 190 p., illus., vinyl cover, \$4.50. A British laboratory text.

IONIZATION AND BREAKDOWN IN GASES—F. Llewellyn-Jones—Methuen (Barnes & Noble), 176 p., illus., \$3.75; paper, \$2.35. Presentation is based on a course of lectures to postgraduate research students and advanced undergraduates.

PROBLEMS IN DIFFERENTIAL EQUATIONS—J. L. Brenner—Freeman, 2nd ed., 172 p., diagrams, paper, \$2.50. Adapted from the Russian book by A. F. Filippov, it is designed as an adjunct text for elementary and intermediate courses.

Books to Own

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