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## Books of the Week

For the editorial information of our readers, books received for review are listed. For convenience purchase of any U. S. Book in print, priced at 95¢ or over, 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. Request free publications direct from publisher, not from Science Service.

**ABOUT CAVES**—Terry Shannon—*Melmont Pubs.*, 47 p., illus. by Charles Payzant, \$2.50. About cave formations and famous discoveries, for young children.

**ABOUT OUR WEATHER**—Gertrude Hevener Gibson—*Melmont Pubs.*, 31 p., illus. by Robert Totten, \$2.50. Simple explanations for beginners.

**ACRYLIC RESINS**—Milton B. Horn—*Reinhold*, 184 p., illus., \$4.50. Describes manufacture, fabrication and applications of acrylic cast products, molding compounds, emulsions and solution compounds.

**ANATOMY OF SEED PLANTS**—Katherine Esau—*Wiley*, 376 p., illus., \$6.95. Introductory one-semester course, includes glossary and bibliographies.

**THE APPLE TREE COMMUNITY**—George A. Smith—*Channel Press*, 96 p., photographs by author, \$5. Naturalist takes us through the seasons with the animals, birds, and insects that make the old tree their home.

**ARTIFICIAL EARTH SATELLITES**—Vols. 1 and 2—L. V. Kurnosova, Ed., transl. from Russian—*Plenum Press*, 227 p., illus., \$9.50. Account of scientific data obtained from the three Sputniks, as presented at Fifth Assembly of the Special IGY Committee in Moscow, 1958.

**BRITANNICA BOOK OF THE YEAR 1960: A Record of the March of Events of 1959**—John V. Dodge and Howard E. Kasch, Eds.—*Encyclopaedia Britannica*, 777 p., illus., \$12. Features special articles on Hawaii and on dating of the past.

**CARTER'S MICROBIOLOGY AND PATHOLOGY**—Alice Lorraine Smith—*Mosby*, 7th ed., 742 p., illus., \$7.50. Fully revised edition, with up-to-date information in rapidly expanding areas.

**THE CHEMICAL HISTORY OF A CANDLE**—Michael Faraday, William Crookes, Ed., introd. by Keith Gordon Irwin—*Viking*, 102 p., illus., paper, 95¢. The classic course of lectures Faraday delivered before a juvenile audience at the Royal Institution, December 1860.

**CHILDREN IN A CHANGING WORLD**—Interdepartmental Committee on Children and Youth—*White House Conference on Children and Youth*, 84 p., illus., paper, \$1.25. A book of charts providing basic data concerning the welfare of U.S. children.

**CIVIL AIR REGULATIONS AND FLIGHT STANDARDS FOR PILOTS**—Aeronautical Staff of Aero Publishers—*Aero Pubs.*, 22nd ed., 96 p., illus., paper, \$2.50. Contains new changes in FAA regulations.

**CONFLUENT HYPERGEOMETRIC FUNCTIONS**—L. J. Slater—*Cambridge Univ. Press*, 247 p., \$12.50. For mathematicians and theoretical physicists.

**DATA FOR BIOCHEMICAL RESEARCH**—R. M. C. Dawson and others—*Oxford Univ. Press*, 299 p., \$10.10. Handbook on compounds, reagents and laboratory techniques, arranged in tabular form.

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**FORMATION AND TRAPPING OF FREE RADICALS**—Arnold M. Bass and H. P. Broida, Eds.—*Academic*, 522 p., \$16. Reference work on present status and techniques of free radical stabilization. Authors include physicists, physical chemists and chemical kineticists.

**FROM ROCKS TO ROCKETS**—Solveig Paulson Russell—*Rand McNally*, unpagged, illus. by Bette J. Davis, \$2.75. About man's tools, in simple language for young readers.

**FUNDAMENTALS OF STRESS ANALYSIS**—Albert Deyarmond and Albert Arslan—*Aero Pubs.*, 2nd ed., 256 p., \$5.75. Gives practical examples as they apply to wing, fuselage and missile shell analysis.

**GENERAL CLIMATOLOGY**—Howard J. Critchfield—*Prentice-Hall*, 464 p., illus., \$10.60. Introductory textbook on physical, regional and applied climatology.

**GOOD DIGGING: The Story of Archaeology**—Dorothy and Joseph Samachson—*Rand McNally*, 224 p., illus., \$3.50. For young people, shows how the archaeologist works, and why he must not only be a scientific detective but an art expert, linguist, engineer and photographer.

**THE GRASSES: Earth's Green Wealth**—Alma Chestnut Moore—*Macmillan*, 150 p., illus., \$5. Deals with the origins, cultivation, botanical characteristics and uses of the entire grass family, including the grains.

**THE HEALTH OF THE PEOPLE WHO WORK**—Albert Q. Maisel, Ed.—*National Health Council*, 268 p., \$4.50. Based upon reports to the 1959 National Health Forum of more than 200 experts in various areas of occupational health.

**THE HOW AND WHY BOOK OF ELECTRICITY**—Jerome J. Notkin and Sidney Gulkin, Paul E. Blackwood, Ed.—*Grosset*, 48 p., illus. by R. Patterson and C. Bernard, \$1. Shows children how to find answers experimentally to elementary questions about electricity.

**THE HOW AND WHY BOOK OF WEATHER**—George Bonsall, Paul E. Blackwood, Ed.—*Grosset*, 48 p., illus. by George Pay, \$1. Answers basic questions about the weather, emphasizing experiments.

**THE IRIS**—N. Leslie Cave—*St. Martin*, rev. ed., 240 p., illus., \$7.50. Handbook on the culture and care of iris, dwarf and unusual species, experiments with hybridization.

**THE LOGIC OF MODERN PHYSICS**—P. W. Bridgman—*Macmillan*, 228 p., paper, \$1.25. Examination of the purpose of physics and of the nature of its fundamental concepts, first published in 1927.

**MAN, CULTURE, AND SOCIETY**—Harry L. Shapiro, Ed.—*Oxford Univ. Press*, 380 p., illus., paper, \$2.25. Reprint of basic anthropology for general reader, first published 1956.

**MONORAILS**—Heimann S. D. Botzow, Jr.—*Simmons-Boardman*, 104 p., photographs, \$3.95. Objective view of the potential of monorail transportation in the United States. Presents technical data and 27-page bibliography.

**THE NATION'S CHILDREN**, 3 Vols: 1. The Family and Social Change. 2. Development and Education. 3. Problems and Prospects—Eli Ginzberg, Ed.—*Columbia Univ. Press*, 252 p., 242 p. and 242 p., \$13.50 per set, \$4.50 each. Collection of essays written for the Golden Anniversary White House Conference on Children and Youth.

**A PUNJABI VILLAGE IN PAKISTAN**—Zekiye Eglar—*Columbia Univ. Press*, 240 p., illus., \$6. Detailed study of the life of a Muslim village

as modern changes penetrate the established relationships of its social life.

REPORT OF THE 44TH NATIONAL CONFERENCE ON WEIGHTS AND MEASURES 1959—National Bureau of Standards—GPO, 144 p., paper, illus., 65¢. Conference proceedings arranged for future reference.

SEARCH FOR THE PAST: An Introduction to Paleontology—James R. Beerbower—Prentice-Hall, 562 p., illus. by author, \$7.50. Textbook emphasizes evolutionary, developmental and paleoecologic viewpoints in presenting the study of the fossil record.

SEEDS ARE WONDERFUL—Willene K. Foster and Pearl Queree—Melmont Pubs., 32 p., illus. by Arnold Dobrin, \$2.50. The plant cycle, for beginning readers.

SIXTH TECHNICAL PROGRESS REPORT—W. L. Faith and N. A. Renzetti—Air Pollution, No. 30, 81 p., paper, \$3. Reviews recent studies, such as photooxidation of hydrocarbons, research in atmospheric chemistry, and motor vehicle exhaust standards.

SOCIAL PROBLEMS IN OUR TIME: A Sociological Analysis—S. Kirson Weinberg—Prentice-Hall, 600 p., \$6.75. Text on the social problems which characterize the highly urbanized society of contemporary United States.

SOVIET GEOGRAPHY: Review & Translation, Vol. I, No. 1-2—Theodore Shabad, Ed., Lawrence Ecker, Transl.—Am. Geographical Soc., 78 p., paper, \$1, monthly, \$6 a year. English reports of current Russian research in geography.

STUDIES IN HOUSING IN MINORITY GROUPS—Nathan Glazer and David McEntire, Eds.—Univ. of Calif. Press, 228 p., maps, \$6. Findings of seven local studies prepared for the Commission on Race and Housing.

SURGERY AS A HUMAN EXPERIENCE: The Psychodynamics of Surgical Practice—James L. Titchener and Maurice Levine—Oxford Univ. Press, 285 p., \$6. Explores the common ground of psychiatry and surgery, focusing on the psychological experience of the patient undergoing surgery.

TEXTILE ENGINEERING PROCESSES—A. H. Nis-san, Ed.—Textile Book Pubs. (Interscience), 366 p., illus., \$9.25. Textbook giving engineer comprehensive survey of the materials, machinery and processes of the textile industry.

THEIR MAJESTIES THE MOB—John W. Caughey—Univ. of Chicago Press, 214 p., \$5. Analyzes the vigilante process past and present, illustrated with selections from publications.

THEORIES OF KNOWLEDGE—Reginald F. O'Neill, S.J.—Prentice-Hall, 242 p., \$4.25. Designed for courses in epistemology.

THEORY OF DIFFERENTIAL EQUATIONS, 3 Vols.—Andrew Russell Forsyth—Dover, new ed., 2,703 p., \$15. Unabridged reprint of original six volumes bound in three. Contains Exact Equations and Pfaff's Problem; Ordinary Equations not Linear (2); Ordinary Linear Equations and Partial Differential Equations.

THE THEORY OF HEAT RADIATION—Max Planck, transl. from German by Morton Masius—Dover, 224 p., paper, \$1.50. Unabridged reprint of translation of the second edition.

THEORY OF PROBABILITY—William Burnside—Dover, 106 p., paper, \$1. Reprint of 1928 edition.

USING MATHEMATICS: Big Ideas and Basic Skills—Kenneth B. Henderson and Robert E. Pingry—McGraw, 2nd ed., 559 p., illus. by H. A. Fluchere, \$7.16. General mathematics, designed to hold young students' interest.

WAVES—F. J. M. Laver—Oxford Univ. Press, 85 p., illus., \$1.20. Concise chapters on echoes and reflections, interfering waves, water, seismic and electromagnetic waves.

X-RAY SPECTROCHEMICAL ANALYSIS—L. S. Birks—Interscience, 137 p., illus., \$5.75. Up-to-date material on excitation, dispersion, detection, quantitative analysis of techniques, and the electron probe microanalyzer.

Science News Letter, April 2, 1960

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