

# Books of the Week

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**THE ANCIENT PAST OF MEXICO**—Alma M. Reed, foreword by Eusebio Devalos Hurtado—Crown Pubs., 388 p., 250 photographs, map, \$7.50. Deals with the artifacts and architecture of Mexico before the Spanish conquest, based on recent discoveries at the newer archaeological sites.

**ANIMALS OF THE HIGH ANDES**—Alida Malkus—Abelard-Schuman, 160 p., illus. by Edward Osmond, \$3.50. Tells boys and girls about condors, camels, hummingbirds, sloths and armadillos.

**ASK ME A QUESTION ABOUT THE HEAVENS**—Sam Rosenfeld—Harvey House, 95 p., illus. by Lillian C. Resnick, photographs, \$2.95. Gives nontechnical answers to questions about the solar system.

**ASK ME A QUESTION ABOUT THE WEATHER**—Sam Rosenfeld—Harvey House, 93 p., illus. by John J. Floherty, Jr., photographs, \$2.95. Explains to young people the scientific principles behind weather phenomena.

**CATV SYSTEM ENGINEERING: How to Plan and Design Modern Cable TV Plants**—William A. Rheinfelder—TAB Bks., 206 p., illus., paper, \$9.95. Discusses concepts, design and installations of Community Antenna Television.

**DICTIONARY OF ASTRONOMICAL TERMS**—Ake Wallenquist, transl. from Swedish by Sune Engelbrektson—Nat. Hist. Press, 265 p., 90 diagrams, paper, \$1.75. Up-to-date reference to 1700 terms, theories, symbols and men in astronomy.

**DICTIONARY OF MATHEMATICS**—C. C. T. Baker—Hart Pub. Co., 338 p., diagrams, \$6.95. Concise reference to most commonly used mathematical terms, theorems, tables, processes and derivations, from Abacus to Zone of Sphere.

**ENVIRONMENTAL VARIABLES IN ORAL DISEASE: Symposium presented at the Montreal meeting of the AAAS, Dec. 1964**—Seymour J. Kreshover and F. J. McClure, Eds.—Am.

Assn. for the Advancement of Science, 312 p., illus., \$8.75. Deals with recent developments pertaining to oral health, from geographical and clinical considerations, nutrition and dental caries to experimental soft tissue lesions, and prenatally induced oral anomalies.

**EXCURSIONS IN NUMBER THEORY**—C. Stanley Ogilvy and John T. Anderson—Oxford Univ. Press, 168 p., \$5. Educational and entertaining explanations of mathematical concepts, from number patterns to Fibonacci numbers.

**FAMILY STRUCTURE, DYNAMICS AND THERAPY**—Irvin M. Cohen, Ed.—Psychiatric Research Reports, 234 p., illus., paper, \$4. Latest results of studies of the family concerning its normal functioning, abnormal behavior, effects of disordered communication, and family psychotherapeutic techniques.

**FERTILITY AND FAMILY PLANNING IN THE UNITED STATES**—Pascal K. Whelpton, Arthur A. Campbell and John E. Patterson—Princeton Univ. Press, 443 p., \$12.50. Projections of births and population for the United States to 1985, based on interviews with 3,322 women conducted in 1960 as a follow-up to 1955 interviews on the same subjects.

**THE FRIGHTENED HARE**—Franklin Russell—Holt, 60 p., illus. by Fredric Sweny, \$3. Acquaints boys and girls with the struggle of survival in the forest.

**FUNDAMENTAL NUCLEAR ENERGY RESEARCH 1965: A Supplemental Report to the Annual Report to Congress for 1965**—U.S. Atomic Energy Commission—GPO, 338 p., illus., paper, \$2.25. Covers the areas of biology and medicine, including environmental studies, physical, chemical, metallurgical and controlled fusion research, nuclear reactor development and safety.

**THE FUNGUS DISEASES OF MAN**—J. Walter Wilson and Orda A. Plunkett—Univ. of Calif. Press, 428 p., 54 color plates, photographs, illus., \$15. A practical, comprehensive treatment of infections caused by fungi, the systemic mycoses, the intermediate and superficial mycoses, and fundamentals of medical mycology.

**FUTURE U.S. TRANSPORTATION NEEDS**—A. H. Norling, United Research Inc.—NASA CR-57005 (CFSTI), multipaged, paper, \$3.50. A broad study of the demand for transportation services in the United States for the next 25 years, bibliography included.

**GO ON WHEELS**—Julius Schwatz—McGraw, 32 p., illus. by Arnold Roth, \$2.50. To encourage experimenting among the youngest readers.

**HIGH ENERGY PHYSICS: Lectures delivered at Les Houches, 1965, Summer School of Theoretical Physics**—C. DeWitt and M. Jacob, Eds.—Gordon & Breach, 509 p., \$10.50; paper, \$8.50. Deals with invariance principles, SU3 and SU6, strong interaction physics, quark models for the elementary particles, and theory of weak interactions.

**THE HISTORY OF PSYCHIATRY: An Evaluation of Psychiatric Thought and Practice from Prehistoric Times to the Present**—Franz G. Alexander and Sheldon T. Selesnick—Harper, 471 p., illus., \$11.95. An authoritative account of the men, movements and events which have influenced the direction and character of psychiatry.

**IN-PILE DOSIMETRY: Report of a Panel held in Vienna, 1964**—A. W. Boyd and others—IAEA (Nat. Agency for Int. Pubs.), 107 p., paper, \$2.50. Reviews present status of research and development work on in-reactor fluence, fast neutron measurements and determination of energy absorbed from reactor radiation.

**KINGDOMS OF THE SAVANNA**—Jan Vansina—Univ. of Wis. Press, 364 p., maps, \$6.75. A scholarly study of the early history of Central Africa, a region inhabited by perhaps 30 million people living in the savannas north of the Zambesi and south of the equatorial forests.

**THE MAA PROBLEM BOOK II: Annual High School Contests of the Mathematical Association of America, 1961-1965**—Charles T. Sal-kind—Random House, 112 p., paper, \$1.95. Examination questions based on mathematics curriculum common to most U.S. high schools, with solution hinting only occasionally at more sophisticated methods.

**THE METROPOLITAN TRANSPORTATION PROBLEM**—Wilfred Owen—Doubleday, rev. ed., 266 p., maps, paper, \$1.45. Updated Brookings Institution Study first published in 1956.

**MINERALS YEARBOOK 1964, Vol. II: Mineral Fuels**—Bureau of Mines Staff—GPO, 509 p., \$2.75. Treats each mineral fuel and such related products as helium, carbon black, peat, coke and natural gas liquids.

**MODERN CHEMISTRY**—H. Clark Metcalfe, John E. Williams and Joseph F. Castka—Holt, 596 p., illus., \$6.08. Reorganized and rewritten standard chemistry textbook for high school.

**MODERN LIFE SCIENCE**—Frederick L. Fitzpatrick and John W. Hole—Holt, 568 p., illus., \$5.60. This high school text approaches the study of living things from an ecological point of view, each chapter is followed by word meanings, a self test, things to do, and a reading list.

**THE NATIONAL SCIENCE FOUNDATION: A General Review of its First 15 Years**—Science Policy Res. Div., Library of Congress—Committee on Science & Astronautics, U.S. Congress, 286 p., charts, paper, single copies free upon request direct to House Document Room, Washington, D.C. 20515. Traces the Foundation's legislative authority, organization, funding and programs.

**NEW ROADS TO YESTERDAY: Essays in Archaeology**—Joseph R. Caldwell, Ed.—Basic Bks., 546 p., illus., \$12.50. These articles from SCIENCE present new evidence and hypotheses about the archaeology of many regions of the world that have come to light during the past decade with the help of new techniques applied in meticulous field methods.

**1965 HIGHLIGHTS OF VA MEDICAL RESEARCH**—VA Research Service, Edward Dummer, Dir.—VA Research Service, 32 p., illus., paper, single copies free upon request direct to publisher, Washington, D.C. 20420. Highlights some findings of pilot research studies at VA hospitals.

**NON-DESTRUCTIVE TESTING IN NUCLEAR TECHNOLOGY: Proceedings of Symposium held in Bucharest, May 1965, Vols. I and II**—A. J. Otter and others—IAEA (Nat. Agency for Int. Pubs.), 392 p., 446 p., illus., paper, \$8, \$9. International papers and discussions on such methods as ultrasonic and radiographic testing and their applications.

**PROGRAMMED PHYSICS, Part II: Electricity and Magnetism**—Alexander Joseph and Daniel J. Leahy—Wiley, 293 p., 54 illus., panels, paper, \$4.95. Written for use primarily in senior high school or first year of college.

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**PUBLIC HEALTH SERVICE GRANTS AND AWARDS, Fiscal Year 1965 Funds, Part 1: Research Projects**—NIH Div. of Research Grants—GPO, 672 p., paper, \$1.75. Tabulated data on the nature, distribution and individual amounts of 16,372 PHS research grants.

**RANDOM-PROCESS SIMULATION AND MEASUREMENTS**—Granino A. Korn—McGraw, 234 p., illus., \$12.50. Describes modern techniques utilizing analog, digital and hybrid analog-digital computers for random-process studies.

**REACTOR TECHNOLOGY: Selected Reviews, 1965**—Leonard E. Link, Ed.—USAEC (CFSTI), 439 p., illus., paper, \$4.50. Articles deal with physics of heavy-water lattices, remote fabrication of reactor fuels, radioactive waste management, radioactive materials transport and sodium technology.

**READER'S DIGEST ALMANAC 1966**—Reader's Digest Assn. (Little, Brown), 1023 p., photographs, maps, \$2.50. Hard-cover edition of modern almanac, includes review of main world events in 1965, and lists facts, figures and dates for quick reference in many fields of interest, fully indexed.

**REFERENCE BOOKS: A Brief Guide for Students and Other Users of the Library**—Mary Neil Barton with Marion V. Bell—Enoch Pratt Free Lib., 6th ed., 145 p., illus., paper, \$1.25. Describes 731 titles, fully revised and updated, of both general and special subject reference works.

**REMOTE HANDLING OF MOBILE NUCLEAR SYSTEMS**—D. C. Layman and G. Thornton—USAEC Div. of Technical Inf. (CFSTI, TID-21719), 649 p., illus., paper, \$4.50. Presents the technology developed for the remote handling of direct-air-cycle nuclear turbojet engines.

**REPORTS ON HAPPINESS: A Pilot Study of Behavior Related to Mental Health**—Norman M. Braddburn and David Caplovitz—Aldine Pub. Co., 195 p., \$5. An attempt to see how self-assessments of happiness are distributed throughout the social groupings of the American population, and how the level of happiness varies.

**SALLY'S CATERPILLAR: A True Story**—Anne Rockwell—Parents' Magazine Press, unpagged, illus. by Harlow Rockwell, \$2.95. For the youngest readers.

**SMALL CREATURES IN MY GARDEN**—Christopher Reynolds—Farrar, Straus, 112 p., illus. by author, \$2.95. Naturalist's explorations of the habits of daddy longlegs, spiders, slugs and similar tiny living things that crawl about a garden, for children.

**THE SOCIETY OF MAN**—Louis J. Halle—Harper, 203 p., \$4.95. Examines the conflict between the orderly conceptual world and the chaotic existential world, illustrates the consequences of an excessive divergence and the impact of the reciprocal action between the two worlds.

**SOVIET LOCAL AND REPUBLIC ELECTIONS**—Max E. Mote—Hoover Institution, 123 p., paper, \$2.50. A description of the 1963 elections in Leningrad based on official documents, press accounts and private interviews.

**SPACE NUCLEAR POWER GENERATORS: Hearings before Joint Committee on Atomic Energy, U.S. Congress**—GPO, 277 p., illus., paper, \$1. Testimony concerning the present status of the AEC's SNAP program for space applications and DOD's and NASA's plans for utilization of isotopic and reactor space electric power systems.

**SPINNING TOPS**—Larry Kettelkamp—Morrow, 64 p., illus. by author, \$2.95. About tops and cones, yo-yos, diabolos, spinning games and gyros.

**STRANGE COMPANIONS IN NATURE**—Olive L. Earle—Morrow, 64 p., illus. by author, \$2.95. Tells boys and girls about partnerships between different species of animals.

**SURFACE INTERACTIONS BETWEEN METALS AND GASES**—V. I. Arkharov and K. M. Gorbunova, Eds., transl. from Russian—Consultants, 163 p., diagrams, paper, \$25. Collection of papers on important aspects of the oxidation of metals and alloys in gaseous media.

**THIRTY YEARS THAT SHOOK PHYSICS: The Story of Quantum Theory**—George Gamow—Doubleday, 224 p., photographs, illus. by author, \$5.95. Professional recollections of a theoretical physicist, includes an amusing translation of a spoofy physics version of Faust originally produced at Niels Bohr's Institute of Theoretical Physics in 1932.

**UNDERSTANDING AUTOMATION: A Data Processing Curriculum Guide and Reference Text**—Enoch Haga—Business Press, 437 p., illus., \$12.50. Explains the principles of automation, gives outlines for high school and college data processing courses, and the workshop and business games approach to teaching automation.

**A PROLOGUE TO POPULATION GEOGRAPHY**—Wilbur Zelinsky—Prentice-Hall, 150 p.,

illus., paper, \$1.95. Explores ideas and methods for mapping populations, their growth, diffusion and distribution throughout the world.

**PSYCHIATRIC RESEARCH IN THE VETERANS ADMINISTRATION**—VA Research Service, Edward Dunner, Dir.—VA (GPO), 32 p., illus., paper, 25¢. Reports on VA cooperative studies in psychiatry, neurobiochemical research, internal components of the conditional reflex, and blood clues in schizophrenia.

**PSYCHOPHYSIOLOGICAL ASPECTS OF CANCER**—Claus B. Bahnson and David M. Kissen, Eds.—N.Y. Acad. of Sciences, Annals. Vol. 125, Art. 3, 282 p., illus., paper, \$6. Papers deal with psychosomatic aspects, relationship between cancer and personality and other psychological influences on cancer.

**RECENT DEVELOPMENTS IN VISION RESEARCH**—Milton A. Whitcomb, Ed.—NAS-NRC, 227 p., illus., paper, \$4. On recent advances in the study of physiological reflex mechanisms in vision and effects of drugs on vision.

**WATCH YOUR LANGUAGE**—Theodore M. Bernstein—Pocket Bks., 213 p., paper, 75¢. Reprint (1958).

**WE ARE NOT ALONE: The Search for Intelligent Life on Other Worlds**—Walter Sullivan—McGraw, rev. ed., 325 p., illus., \$7.50. New edition takes into account the interpretations of the Mariner IV photographs of the planet Mars.

**THE WORLD OF FLOWERS**—Herbert Reisinger, Ed.—Viking Press, 240 p., photographs partly in color, illus., \$12.50. A pictorial record with descriptions of some of the world's more exotic flora, with essays by international botanists.

**THE YEAR OF THE GORILLA**—George B. Schaller—Univ. of Chicago Press, 260 p., photographs and illus. by author, paper, \$1.95. New paper edition of book first published in 1964.

• Science News, 89:204 March 26, 1966

#### METEOROLOGY

## Tornado Season Peak Reached in Spring

► MORE than half the tornadoes that strike in the United States funnel down in April, May and June. Most occur between noon and midnight, the most dangerous of those hours being between four and six.

Alerts are an important part of the U.S. Weather Bureau's battle against the devastating tornado. Plans to greatly increase and improve the methods by which the public is warned of probable or possible natural disasters were reported in Washington, D.C., by Secretary of Commerce John T. Connor.

An appropriation of seven million dollars for the upcoming fiscal year has been requested for the Natural Disaster Warning System, which would include alerts not only for tornadoes, but also for hurricanes, tidal waves, floods, blizzards and other hazards.

When fully operational, the system will reach hundreds of communities that have not previously had adequate warning service.

Though continual research has boosted the accuracy of the tornado warning system since it was established some 12 years ago, the terrifying twisters kill scores of persons and cause millions of dollars worth of damage each year.

The proposed Natural Disaster Warning System, dubbed NADWARN, would provide around-the-clock weather alerts, mainly through radio, television and newspapers. Especially earmarked for improved detection and communications systems are the tornado-prone areas of the Midwest and East.

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#### TECHNOLOGY

## Dial-a-Book Library At Dutch University

► A LIBRARY from which a student can select any of 120,000 books by simply dialing a number is now in use in the technical university of Delft in Holland. It is the first of its kind in the world, taking two years to establish.

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• Science News, 89:205 March 26, 1966

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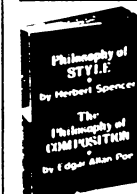
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