

Books of the Week

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ANVIL OF THE GODS: Modern Airplanes versus Violent Storms—Fred McClement—Lippincott, 272 p., photographs, \$4.95. A reporter and veteran of many flight missions gives here an impressive record of the destructive power of thunderstorms in the air.

ARACHNIDA—Theodore Savory—Academic Press, 291 p., illus., maps, \$9.50. Comprehensive account of the biology of the class Arachnida, treating the major orders, the scorpions, false-scorpions, harvestmen and spiders in detail, and including systematic coverage of the sub-phylum Chelicerata.

ASTRONAUTICS AND AERONAUTICS, 1963: Chronology on Science, Technology and Policy—NASA Historical Staff, Office of Policy Planning—NASA (GPO), 610 p., paper, \$2. Day-by-day record of the sixth year of the U.S. space effort, with index.

CALCULUS EXPLAINED—W. J. Reichmann—Van Nostrand, 331 p., \$5.95. Describes calculus, explains its basic principles, its validity and relation to practical problems, and demonstrates its rules and methods.

COMPARATIVE GUIDE TO AMERICAN COLLEGES: For Students, Parents and Counselors—James Cass and Max Birnbaum—Harper, 556 p., \$8.95. Book evaluates as well as describes all accredited four-year U.S. colleges that offer degrees in the liberal arts, engineering or education.

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COMPUTERS: Theory and Uses—Vincent S. Darnowski; Hugh Allen, Jr., Ed.—Nat'l Science Teachers Assn., 108 p., illus., paper, \$1 direct to publisher, 1201-16th St., NW, Washington, D.C. 20036. A unit for high school classes.

DYE PLANTS AND DYEING: A Handbook—Ethel Jane McD. Schetky, Ed.—Brooklyn Botanic Garden, 100 p., photographs, paper, \$1.25 direct to publisher, Brooklyn, N.Y. 11225. Basic directions and recipes from many countries.

FIELD GUIDE TO THE STUDY OF HUMAN REPRODUCTION—Clellan S. Ford—HRAF Press (Taplinger), 60 p., paper, \$1.50. Outline for field research workers who are interested in investigating some aspects of the reproductive cycle.

FINITE PERMUTATION GROUPS—Helmut Wielandt, transl. from German by R. Bercow—Academic Press, 114 p., paper, \$2.45. Contains the basic theorems on permutation groups, shows their usefulness in constructing abstract groups and demonstrates their applications.

FROM LITTLE ACORNS: The Story of Your Body—Frances Westgate Butterfield—Emerson Bks., 2nd ed., 159 p., illus. by Dorothy Marion Weiss, \$3.50. Weaves into a story for young children factual explanations of the functioning of each part of the body.

THE GEORGE WASHINGTON LAW REVIEW SYMPOSIUM: Law, Science and Technology—Thomas A. Cowan and others—George Washington Law Review, Vol. 33, No. 1, 456 p., paper, \$4.95. On problems common to jurisprudence and technology, the lawyer and the scientist, individual rights and technology, and some legal aspects of space and nuclear power.

HUNGRY NATIONS—William and Paul Paddock—Little, Brown, 344 p., map, \$6.50. An appraisal of why the foreign aid billions failed to produce permanent benefits among the underdeveloped nations and how better application of science might help them help themselves.

INSERVICE MATHEMATICS EDUCATION: Promising Practices for Elementary and Secondary Teachers—Veryl Schult and Theodore Abell—OE (GPO), 129 p., paper, 50¢. Reports on inservice programs in selected states and conference panel reports.

LISTEN TO LEADERS IN ENGINEERING—Albert Love and James Saxon Childers, Ed.—Tupper & Love (McKay), 338 p., \$5.95. Outstanding engineers present each his chosen field of engineering, telling how applied research develops new areas of technology. For the general reader.

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LISTEN TO LEADERS IN SCIENCE—Albert Love and James Saxon Childers, Eds.—Tupper & Love (McKay), 278 p., \$5.50. Eighteen eminent scientists present the principles of each branch of science and the excitement of working in research at the borderlines of the various fields of science.

THE MAGIC OF MOLECULES—Herbert W. Franke, transl. from German by H. F. Brookes—Abelard-Schuman, 275 p., illus., \$6. Explains the molecular structure of matter in terms the layman can understand, aided by unusual amount of diagrams and models.

MODERNIZING THE AMERICAN ECONOMY: A Joint Statement—NPA Joint Subcommittee on Improving America's International Competitive Position and the NPA Steering Committee—Nat'l Planning Assn., 25 p., paper, \$1. Analysis and recommendations.

MOTHERS OF SIX CULTURES: Antecedents of Child Rearing—Leigh Minturn, William W. Lambert and others—Wiley, 351 p., \$7.25. Describes the results of a factor analysis of the responses of mothers to questions concerning their child training practices, ranging from New England to Kenya.

THE NEW MILITARY: Changing Patterns of Organization—Morris Janowitz, Ed.—Russell Sage Foundation, 369 p., \$6.50. An account of military research studies relevant to social science theory, research in bureaucracy, social change and civil-military relations.

NONEUCLIDEAN GEOMETRY—Herbert Meschkowski, transl. from German by A. Shenitzer—Academic Press, 104 p., diagrams, paper, \$2.45. In this course the author develops the subject with purely geometric means.

PHANTASTICA: Narcotic and Stimulating Drugs. Their Use and Abuse—Louis Lewin, new foreword by Bo Holmstedt—Dutton, 335 p., \$5.95. Reprint of English translation of work first published by German pharmacologist in 1924.

PHYSICAL ELECTRONICS—G. F. Alfrey—Van Nostrand, 220 p., diagrams, \$8.50. Concise basic text providing introduction to the physical principles governing the operation of electronic devices.

PROGRAMED GENETICS, Vol. II: Chromosome Behavior—Chester A. Lawson and Mary Alice Burmester—Heath, 158 p., diagrams, paper, \$2.95. Field-tested programed course for self-study in mitosis, meiosis and the relation of chromosomes to sex.

THE SCIENCE BOOK OF METEOROLOGY: An Introduction to the Atmosphere and its Phenomena—David C. Knight—Watts, Franklin, 215 p., photographs, diagrams, \$4.95. Basic elements of meteorology at intermediate level, with special section on The World Meteorological Organization.

SMITHSONIAN ANNALS OF FLIGHT, Vol. 1, No. 1: The First Nonstop Coast-to-Coast Flight and the Historic T-2 Airplane—Louis S. Casey—Nat'l Air Mus. (GPO), 90 p., illus., paper, 70¢. First in a new series useful to historians and research students.

TRAINING THE HARD-CORE UNEMPLOYED: A Demonstration-Research Project at Virginia State College, Norfolk Div.—OE (GPO), 101 p., illus., paper, 45¢. Interim report, discusses recruitment and counseling, and evaluates various training programs.

TREASURY OF LAW—Richard W. Nice, Ed.—Philosophical Lib., 553 p., \$10. Excerpts from legal documents that contributed significantly to man's determination to govern his conduct in interpersonal and international affairs.

THE WILD SWANS FLY—Pauline B. Innis—McKay, 147 p., photographs, \$3.75. Story for young readers, incorporating what is known about the Whistling Swans.

WILLARD GIBBS—Muriel Rukeyser—Dutton, 465 p., illus., paper, \$1.95. Reprint (1942) of beautifully written biography of one of America's great scientists.

• Science News Letter, 87:28 January 9, 1965

Do You Know?

To supply Rio de Janeiro with sufficient water, the world's largest municipal underground pumping station is under construction in Brazilian mountains.

Consumption of electricity in the United States doubles every ten years, increasing five times as fast as population.

Anemia in infants 6 to 18 months old usually results from a lack of iron.

Tiny, powerful magnets are being sewn into the waistbands of ski pants to help find avalanche victims.

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