

# Books of the Week

For the editorial information of our readers, books received for review are listed. For convenient purchase of any U. S. book in print, 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.

**ADVANCES IN FLUORINE CHEMISTRY**, Vol. 2—M. Stacey, J. C. Tatlow and A. G. Sharpe, Eds.—*Butterworths*, 220 p., illus., \$8. On the thermochemistry of organic fluorine compounds, fluorine resources and utilization, mass spectrometry of fluorine compounds and other recent research.

**ADVANCES IN GEOPHYSICS**, Vol. 7—H. E. Landsberg and J. Van Mieghem, Eds.—*Academic Press*, 333 p., illus., \$11. Covers research in the fields of atmospheric tides, characteristics of stratospheric properties, arctic meteorology and other topics.

**ATLANTIC CROSSINGS BEFORE COLUMBUS**—Frederick J. Pohl—*Norton*, 315 p., illus., \$4.50. Reconstruction of possible pre-Columbian crossings, bringing together a wide range of controversial evidence in considerable detail.

**BUSH FLYING IN ALASKA**—Charles Coombs—*Morrow*, 95 p., illus. by Morgan Henninger, \$2.95. Tells boys about the hazardous profession of small aircraft pilots in remote land areas.

**CARTER'S PRINCIPLES OF MICROBIOLOGY**—Alice Lorraine Smith—*Mosby*, 4th ed., 603 p., illus., \$6. Fully revised and updated text, emphasizes the value of a knowledge of microbiology in everyday life.

**THE CELL: Biochemistry, Physiology, Morphology**, Vol. II: Cells and Their Component Parts—Jean Brachet and Alfred E. Mirsky, Eds.—*Academic Press*, 916 p., illus., \$25. Devoted to the study of the cell constituents, including their biochemical activities and their interactions with other cell organelles.

**COLLECTING SCIENCE LITERATURE FOR GENERAL READING**—Watson Davis and others; Frances B. Jenkins, Ed.—*Univ. of Ill. Grad. School of Lib. Science (Illini Union Bookstore)*, 186 p., paper, \$2. Papers presented at 1960 Institute, directed to assist college, public and school librarians in selecting and building adequate science collections.

**COMPUTER CONTROL SYSTEMS TECHNOLOGY**—Llewellyn M. K. Boelter and others; Cornelius T. Leondes, Ed.—*McGraw*, 649 p., illus., \$16. Presents basic theoretical treatment of the subject, with many of the most significant recent applications of this technology.

**THE CONTEST PROBLEM BOOK: Problems from the Annual High School Contest of the Mathe-**

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tical Association of America—Charles T. Sal- kind—*Random House*, 154 p., paper, \$1.95. Collection of problems, with solutions and classification of problems.

**THE EARTH, THE PLANETS AND THE STARS: Their Birth and Evolution**—K. E. Edgeworth—*Macmillan*, 193 p., illus., \$5.75. A review of theories of planetary and stellar evolution by British astronomer, including the first presentation of his own suggestion concerning earth's formation.

**ELECTRICAL ENGINEERING 'FUNDAMENTALS**—Robert Brownell Angus, Jr.—*Addison-Wesley*, 516 p., illus., \$8. Introductory textbook to a-c and d-c circuit theory, suitable for two- or three-term course.

**ELEMENTARY DIFFERENTIAL EQUATIONS**—William Ted Martin and Eric Reissner—*Addison-Wesley*, 2nd ed., 331 p., \$7.50. One-semester course, with applications to physical science and engineering.

**FISH AS FOOD**, Vol. 1: Production, Biochemistry and Microbiology—Georg Borgstrom, Ed.—*Academic Press*, 725 p., illus., \$24. Comprehensive, up-to-date source of information on fisheries and fish cultivation in different parts of the world, biochemistry, food values, microbiology and spoilage of fish. First of three volumes.

**FOXES AND WOLVES**—Charles L. Ripper—*Morrow*, 64 p., illus. by author, \$2.75. Informs young readers about the habits of foxes, coyotes and gray wolves.

**FROM FISH TO PHILOSOPHER**—Homer W. Smith—*Doubleday*, rev. ed., 293 p., illus., paper, \$1.45. Physiologist shows how kidney function has permitted adaptation of animals to diverse environment, and how regulated internal environment has accompanied the expansion of consciousness and thought.

**GLIDERS**—Larry Kettelkamp—*Morrow*, 48 p., illus. by author, \$2.75. Shows young boys some of the principles and tricks of soaring flight.

**THE GLORIOUS OYSTER**—Hector Bolitho, Ed., scientific chapters by Maurice Burton—*Horizon Press*, 174 p., illus., \$4.50. Historical, scientific, artistic and culinary reflections on the succulent bivalve.

**INTERNATIONAL REVIEW OF CYTOLOGY**, Vol. XI—G. H. Bourne and J. F. Danielli, Ed.—*Academic Press*, 356 p., illus., \$11. On the fine structure of insect sense organs, cytology of developing eye, histochemistry of ossification and other topics.

**INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS**—Donald Greenspan—*McGraw*, 195 p., \$7.50. Text suited for advanced undergraduate and beginning graduate students in mathematics, physics and engineering.

**THE LIVING SYMBOL: A Case Study in the Process of Individuation**—Gerhard Adler—*Pan-*

*theon Bks*, 463 p., illus., \$6. Analytical psychologist's detailed study of a case of claustrophobia, showing clearly the stages of Jung's concept of individuation.

**MORE NUMBERS: Fun & Facts**—J. Newton Friend—*Scribner*, 201 p., \$2.95. New collection of mathematical curiosities, traditions and ingenious problems, for the non-mathematician who likes figures.

**NUMBERS: Rational and Irrational**—Ivan Niven—*Random House*, 136 p., paper, \$1.95. First in series of monographs of the School Mathematics Study Group, aimed at presenting important aspects of pure mathematics interestingly for high school students and laymen.

**PAVLOVIAN CONFERENCE ON HIGHER NERVOUS ACTIVITY**—Nathan S. Kline, Ed.—*N. Y. Acad. of Sciences, Annals*, Vol. 92, Art. 3, 385 p., illus., paper, \$5. Proceedings of the first joint meeting of a Soviet scientific academy and an American one.

**PREHISTORIC MAN ON THE GREAT PLAINS**—Waldo R. Wedel—*Univ. of Okla. Press*, 355 p., illus., \$5.95. Presents a review of some 10,000 years of human activities in the North American Plains as revealed by three decades of systematic archaeological research.

**PROGRAMMING AND CODING FOR AUTOMATIC DIGITAL COMPUTERS**—G. W. Evans, II and C. L. Perry—*McGraw*, 249 p., \$9.50. Practical working aid to organized approaches to basic programming and coding.

**RECENT ADVANCES IN HEAT AND MASS TRANSFER**—J. P. Hartnett, Ed.—*McGraw*, 404 p., graphs, \$9.75. Collection of papers useful to practicing engineers and researchers.

**REFUGEES: A Study in Changing Attitudes**—R. N. Saksena—*Asia Pub. (Taplinger)*, 119 p., 50 tables, \$4.75. Sociologist's study based on interviews with 854 non-Muslim families who fled from Pakistan and settled in India following the partition of the sub-continent in 1947.

**SCIENCE AWAKENING**—B. L. Van der Waerden, transl. from Dutch by Arnold Dresden—*Oxford Univ. Press*, 306 p., illus., \$7.50. A history of Egyptian, Babylonian and mainly Greek mathematics, based on original sources, for mathematicians and the mathematically inclined general reader.

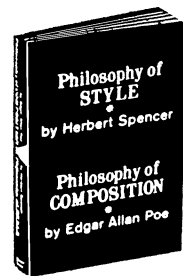
**SCIENTIFIC MANPOWER 1960: Symposium on Sociology and Psychology of Scientists**—Samuel Schenberg, Chmn.—*NSF (GPO)*, 52 p., paper, 40¢. Highlights and papers read at the ninth Conference on Scientific Manpower.

**SPACE POWER SYSTEMS**—Nathan W. Snyder, Ed.—*Academic Press*, 632 p., illus., \$6. Selection of technical papers based mainly on a Symposium of the American Rocket Society, held at Santa Monica, Calif., September 1960.

**TEENAGERS WHO MADE HISTORY**—Russell Freedman—*Holiday House*, 272 p., illus. by Arthur Shilstone, \$3.50. Biographical sketches of Wernher von Braun, Samuel Colt, Louis Braille and Galileo Galilei, among others.

**TELEVISION FOR SCHOOL SCIENCE: Report on OEEC Seminar, Ashridge (England), July 1960**—OEEC, 181 p., paper, single copies free upon request direct to Organization for European Economic Co-operation, 1346 Connecticut Ave. NW, Washington, D. C. Report on the present status of school television in Western Europe.

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