

# Books of the Week

Listing is for readers' information, not advertising. For convenient purchase of any book listed or any U.S. book in print, remit retail price (we pay postage) plus 25¢ handling charge if price is less than \$2 to Book Department, Science Service, 1719 N St., N.W., Washington, D. C. 20036.

**ADVENTURE LIT THEIR STAR**—Kenneth Allop—Crown Pubs., 222 p., illus. by Anthony Smith, \$3.95. Amateur ornithologist's record of the drama of adaptation of a pair of ringed plovers in their struggle to establish themselves on the outskirts of an industrial city.

**AIR WAR AGAINST HITLER'S GERMANY**—Stephen W. Sears with Marvin W. McFarland—Am. Heritage (Harper), 153 p., photographs, maps, \$3.95. Reviews the technological weapons and their effects in the war fought two decades ago.

**THE BEHAVIOR OF HETEROMYID RODENTS**—John Frederick Eisenberg—Univ. of Calif. Press, 114 p., 13 plates, paper, \$2.50. Study stresses the social behavior of five species from three genera in order to formulate a theory of the evolution of social behavior in terms of the niche specialization.

**BIOLOGICAL TREATMENT OF CYANIDE WASTES**—R. Sage Murphy and John B. Nesbitt—Pa. State Univ., College of Engineering, 66 p., diagrams, paper, \$2. Investigates the cyanide assimilation capacity of an activated sludge system to determine the economic feasibility of this process for treating industrial cyanide wastes.

**BLOOD PRESSURE OF ADULTS BY AGE AND SEX: United States, 1960-1962**—National Center of Health Statistics—PHS (GPO), 40 p., paper, 35¢. Vital statistics on blood pressure measurement, and distributions and mean levels by age and sex.

**THE BODY**—Alan E. Nourse and Eds. of LIFE—Time Bk. Div., 200 p., illus., 72 p. full color, \$3.95 direct to publisher, 540 North Mich. Ave., Chicago, Ill. Shows dramatically with the help of picture essays how the body is constructed and how it functions.

**THE COMMON MARKET: Friend or Competitor**—Jesse W. Markham, C. E. Fiero and Howard S. Piquet—N.Y. Univ. Press, 123 p., \$3. Examines in depth the political and economic history of the Common Market and its implications for the United States.

**GEMS OF WORLD OCEANS: A Guide to World Sea Shell Collecting**—A. Gordon Melvin—Naturegraph, 96 p., 14 color plates, kodachromes and drawings by Lorna S. Melvin, \$4.50; paper, \$2.95. Informative and attractive beginner's guide.

**GRAVITATION AND RELATIVITY**—Hong-Yee Chiu and William F. Hoffmann—Benjamin, 353 p., diagrams, \$15.75. Presents the fundamental concepts, theoretical structure and experimental foundations of gravitation theory in the light of present-day research. Topics range from structure of general relativity to possible observable implications of gravitational theory for geophysics, atomic physics and astrophysics.

**THE GUGGENHEIM MEDALISTS: Architects of the Age of Flight**—G. Edward Pendray, Ed.—Guggenheim Medal Bd. of Awards, 125 p., photographs, \$3; paper, \$2. Review of Daniel Guggenheim's contributions to aeronautics and short biographies of the 35 Medalists, from Orville Wright in 1929 to James Smith McDonnell in 1963.

**THE INSECTS**—Url Lanham—Columbia Univ. Press, 292 p., photographs by author, drawings by Caroline Lanham, \$6.95. A beautifully illustrated natural history of the insects written for the amateur entomologist and the general reader.

**LOW-PROFILE WOOD FLOOR SYSTEMS**—John W. Talbott—Washington State Institute of Technology, 76 p., illus., paper, single copies free upon request direct to publisher, Pullman, Washington. Study and testing program for wood floor systems designed to compete with slabs both in performance and cost.

**MIES VAN DER ROHE: Architecture and Structure**—Peter Blake—Penguin, 124 p., photographs, paper, \$1.25. Monograph about one of the masters of contemporary architecture.

**THE MOSSBAUER EFFECT AND ITS APPLICATIONS IN CHEMISTRY**—V. I. Goldanskii, transl. from Russian—Consultants, 119 p., paper, \$12.50. Papers on resonance fluorescence, on the general importance of the Mossbauer effect, on shift and splitting of Mossbauer spectrum lines, applications in chemistry, and results of studies of the Mossbauer effect in iron and in tin compounds.

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION: Ninth Semi-annual Report to Congress, January 1-June 30, 1963**—GPO, 216 p., illus., paper, \$1. Gives account of advances in the manned space flight program, the scientific investigation of space, applications and advanced research, nuclear space power, and international programs.

**THE NATURAL RADIATION ENVIRONMENT**—John A. S. Adams and Wayne M. Lowder, Eds.—Univ. of Chicago Press, 1,069 p., illus., \$15. Collection of papers by more than one hundred scientists concerned with various aspects of the problem of developing basic data on the physical properties and distribution of natural radiation and its sources in the environment of man.

**ORGANIC CHEMICAL PREPARATIONS**—Frank D. Popp and Harry P. Schultz—Saunders, 392 p., illus., paper, \$5.25. Laboratory manual mainly using the techniques of macro operations, and including certain semimicro preparations.

**THE ORIGIN OF LIFE**—John Keosian—Reinhold, 118 p., illus., paper, \$1.95. Discusses Oparin's hypothesis, the composition of the primordial atmosphere, distribution and primary synthesis of organic compounds, and proposes some unsettled questions and speculations.

**THE PHILOSOPHY OF SCIENCE: Essays in Contemporary Realism**—Charles S. Seely—Philosophical Lib., 140 p., \$3.75. Personal observations on the principles of materialistic thought and its influence on human history.

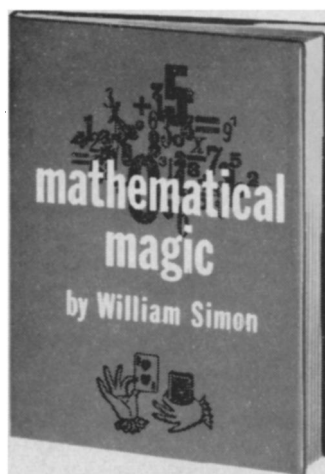
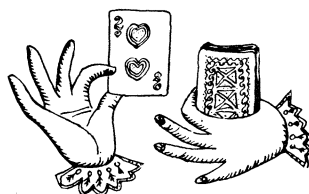
**SOVIET PROGRESS IN FOREST FIRE CONTROL**—N. P. Kurbatskii, transl. from Russian—Consultants, 38 p., illus., \$10. Deals with the comparative fire resistance in the taiga zone, principles and prospects of finding new chemical means of extinguishing forest fires, and discusses calorific value of certain varieties of forest fuels.

**UNMANNED SPACECRAFT OF THE UNITED STATES**—Edgar M. Cortright—NASA, 16 p., illus., paper, single copies free upon request direct to Educational Publications, NASA, Washington 25, D. C. Describes spacecraft investigating the space environment and the weather and communication satellites.

**WILDFLOWER PORTRAITS**—Eloise Reid Thompson, with botanical descriptions by Edna Wolf Miner—Univ. of Okla. Press, 220 p., 100 color plates, \$15. Accurate and full-page water-color studies of wildflower specimens drawn mainly from the American Southwest.

**YOUR BRAIN: Master Computer**—Margaret O. Hyde—McGraw, 154 p., illus. by P. A. Hutchison, \$3.50. Explores in popular language how scientists investigate the functioning brain in animals and men, and compares them to computers.

• Science News Letter, 86:107 Aug. 15, 1964



Tricks, stunts, unusual phenomena for ingenious and baffling entertainment—this collection, based on numerical peculiarities, will intrigue the professional, amaze the uninitiated, and clarify many useful mathematical principles.

You do not have to be either magician or mathematician. Just learn the working principles and use the simple props: playing cards, matches, coins, a calendar.

Includes, in addition to "number magic":

rope tricks	magic squares
hand-writing divination	mental magic
Houdini's coat escape	magic of shapes

## MATHEMATICAL MAGIC

by  
William Simon

\$4.95

CHARLES SCRIBNER'S SONS

