

# Books of the Week

For the editorial information of our readers, books received for review since last week's issue 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. Request free publications direct from publisher, not from Science Service.

**ADVANCES IN INORGANIC CHEMISTRY AND RADIOCHEMISTRY, Vol. I**—H. J. Emeleus and A. G. Sharpe—*Academic*, 449 p., \$12. One of the main features of this series is the integration of structural, kinetic and thermodynamic phenomena.

**ANTARCTIC SCOUT**—Richard Lee Chappell, foreword by Arthur A. Schuck, preface by Paul A. Siple—*Dodd*, 205 p., photographs by author, \$3.50. Eagle Scout's report on his experiences with the U.S. Antarctic Expedition during IGY.

**THE BIRD BAZAARS OF NOVAYA ZEMLYA**—S. M. Uspenski, transl. by J. M. MacLennan—*Canad. Dept. of Northern Affairs and National Resources (Queen's Printer)*, 159 p., paper, \$1. Volume 4 of Translations of Russian Game Reports, of interest to biologists and those concerned with administration of seabirds.

**BIRTH CONTROL AND CATHOLIC DOCTRINE**—Alvah W. Sulloway, preface by Aldous Huxley—*Beacon Press*, 257 p., \$3.95. A lawyer examines the Catholic position as set forth in the Church's own statements.

**CAREERS IN FORESTRY**—U. S. Forest Service—*Govt. Print. Off.* for Dept. of Agric., Misc. Pub. No. 249, rev. ed., 22 p., illus., paper, 20¢.

**CHLORPROPAMIDE AND DIABETES MELLITUS**—Martin G. Goldner, Ed.—*N. Y. Acad. of Sciences, Annals*, Vol. 74, Art. 3, 621 p., illus.,

paper, \$5. Pharmacological, metabolic and clinicometabolic studies.

**DARWIN AND THE DARWINIAN REVOLUTION**—Gertrude Himmelfarb—*Doubleday*, 480 p., \$5.95. A scholarly reconstruction seeking to recapture a sense of how Darwin derived his theory.

**DISCOVERING CHEMISTRY**—Elizabeth K. Cooper—*Harcourt*, 190 p., illus. by author, \$3. Introduces boys and girls to the chemical elements and describes the structure of atom and molecule. Illustrated with more than 100 experiments safely performed in a home laboratory.

**ENDURANCE: Shackleton's Incredible Voyage**—Alfred Lansing—*McGraw*, 282 p., illus., \$5. Account of the Imperial Trans-Atlantic Expedition in 1915, based on personal diaries and old ledgers.

**THE FIRST BOOK OF MAPS AND GLOBES**—Sam and Beryl Epstein—*Watts, F.*, 63 p., illus. by Laszlo Roth, \$1.95. Acquaints children with map reading and map making, scale, symbols and use of maps, including glossary and bibliography.

**GENESIS AND GEOLOGY**—Charles Coulston Gillispie—*Harper*, new ed., 306 p., paper, \$1.75. A study in the relations of scientific thought, natural theology and social opinion in Great Britain, 1790-1850, first published in 1951.

**GLAUCOMA: Transactions of the Third Conference, 1958**—Frank W. Newell, Ed.—*Macy*, 272 p., illus., \$5.25. Discusses tonography, osmotic factors in the formation of aqueous humor and consensual changes in intraocular pressure.

**GRASSBLADE JUNGLE**—Nesta Pain—*Coward-McCann*, 207 p., illus., \$3.75. Of grasshoppers, praying mantis, bees, cicadas, termites and scorpions.

**HEATING, VENTILATING, AIR CONDITIONING GUIDE 1959**—*Am. Soc. of Heating and Air Conditioning Engineers*, 37th ed., 768 p. plus index and advertising, illus., \$12.

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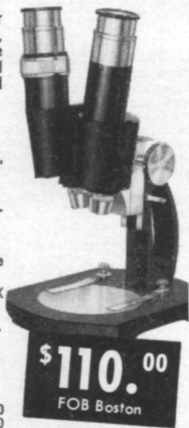
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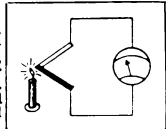
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**A HISTORY OF CYTOLOGY**—Arthur Hughes—*Abelard-Schuman*, 158 p., illus., \$5. History of the branch of biology concerned with the behavior, growth and reproduction of the single living cell. Author relates progress at each stage to the technical means available to the microscopists of their time.

**THE MAMMALS OF NORTH AMERICA Vols. I and II**—E. Raymond Hall and Keith R. Kelson—*Ronald*, 1083 p., 79 p. index, maps and drawings, \$35. Authors assumed that all mammals have had a common ancestor. Marsupalia are treated first, later Carnivora; in each genus, oldest species are listed first, others in order of decreasing age. Subspecies are arranged alphabetically. Includes all pertinent taxonomic and distributional information.

**MAN-MADE SUN: Story of Zeta**—J. D. Jukes, foreword by Sir George Thomson—*Abelard-Schuman*, 136 p., illus., \$2.75. Tells about Harwell's thermonuclear machine, which achieved temperatures of a million degrees, and of the prospects of releasing the nuclear energy of deuterium in a controlled fashion.

**MATHEMATICS DICTIONARY**—Glenn James and Robert C. James, Eds.—*Van Nostrand*, 2nd ed., 546 p., \$15. English definitions of more than 7,000 mathematical terms, concepts and relationships, with multilingual indexes giving French, German, Russian and Spanish equivalents.

**ON THE TRACK OF UNKNOWN ANIMALS**—Bernard Heuvelmans, transl. from French by Richard Garnett, introd. by Gerald Durrell—*Hill & Wang*, 558 p., illus. by Monique Watteau, photographs, \$6.95. Zoologist examines evidence in scientific literature and local monographs in search of animals still not admitted to the catalogue of zoology.

**THE ORIGIN OF CIVILIZED SOCIETIES**—Rushton Coulborn—*Princeton Univ. Press*, 200 p., \$4. Analysis of pertinent data drawn from archaeology, anthropology and history.

**THE ORIGIN OF ORIENTAL CIVILIZATION**—Walter A. Fairservis, Jr.—*New Am. Lib.*, 192 p., illus., paper, 50¢. Anthropologist-Archaeologist recreates prehistoric Asia from fossil skeletons of early man, from bronzes and pottery, from the remains of weapons and tools, and from the ruins of burial grounds.

**OUR ATMOSPHERE**—Theo Loebsock, transl. from German by E. L. and D. Rewald—*Pantheon*, 256 p., illus., \$5. A scientist here introduces the general reader to the layers of the atmosphere, cosmic rays, sounds, air currents, visual effects, climate and its changes, and finally treats the effects of air on man.

**OUR NEW LIFE WITH THE ATOM**—Robert Rienow and Leona Train Rienow—*Crowell*, 202 p., illus., \$3.50. Gives the layman a working knowledge of atomic fission and nuclear fusion, and describes peaceful applications in power, medicine and industry.

**SCIENTIFIC RESEARCH AND DEVELOPMENT IN COLLEGES AND UNIVERSITIES: Expenditures and Manpower, 1953-54**—National Science Foundation, Alan T. Waterman, Dir.—*Govt. Print. Off.*, 173 p., paper, \$1. Final part of NSF survey of the over-all U. S. research and development effort during 1953-54.

(Continued on page 270)



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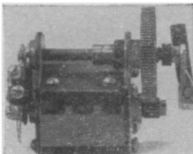
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## Books of the Week

(Continued from page 268)

**SPACE FLIGHT:** The Coming Exploration of the Universe—Lester del Ray—*Golden Press*, 56 p., illus. by John Polgreen, 50¢. Juvenile literature about rocket ships, spacemen and moon flights, giving an idea of distances and difficulties involved.

**SPRINGBOARDS TO SCIENCE**—Elizabeth Mechem Fuller and Mary Jackson Ellis—*Denison*, 44 p., illus., \$3. Suggests experiences and experiments to encourage children to develop an early interest in science.

**ST. LAWRENCE SEAWAY**—Clara Ingram Judson—*Follett*, 160 p., illus., \$3.95. Story of the vast power project and the cooperation between Canada and the U. S. in bringing it about.

**WAR AND THE SOVIET UNION: Nuclear Weapons and the Revolution in Soviet Military and Political Thinking**—H. S. Dinerstein—*Praeger*, 268 p., \$5.50. Study prepared as part of research undertaken for the U. S. Air Force by the RAND Corporation.

**WATER: A Resource**—Matthew F. Vessel and Herbert H. Wong—*Fearon Pubs.*, 14 p., illus., paper, 75¢. Experiments with water and related suggestions for science education.

**WHY MEN CONFESS**—O. John Rogge—*Nelson*, 298 p., \$5. A lawyer examines confessions of witches, of the innocent, of Russian communists, from the time of the Inquisition to our time of brainwashing.

**WOMEN AND WORK IN AMERICA**—Robert W. Smuts—*Columbia Univ. Press*, 180 p., \$4.50. Author delineates the revolutionary changes in the place of women in the world of work by drawing on contemporary accounts of the lives and work of individual women.

**WOMEN IN MODERN SCIENCE**—Edna Yost—*Dodd*, 176 p., illus., \$3. Biographies of eleven American women scientists in a variety of fields, five of them members of the National Academy of Sciences.

Science News Letter, April 25, 1959

## Questions

**ASTRONAUTICS**—What is the function of the paddles attached to the proposed satellites? p. 261

**CONSERVATION**—What animal is reaching plague proportions in Australia? p. 263

**OCEANOGRAPHY**—Where is the recently discovered unusual lagoon located? p. 261

**Photographs**—Cover, National Aeronautics and Space Administration; p. 259, General Electric Company; p. 263, A. Scholes; p. 272, Sprayon Products, Inc.

## Do You Know

Since fats are insoluble in water, they must be transported through the body by a special mechanism which involves their combination with proteins through enzyme action.

A considerable relationship exists between glacier behavior and the small but significant climatic fluctuations in Europe and America in past centuries.