

# 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.

**AMERICAN AGRICULTURE: Geography, Resources, Conservation**—Edward Higbee—*Wiley*, 399 p., illus., \$7.95. A systematic survey of the agricultural regions of the U.S.

**ANATOMICAL ATLAS**—Maud Jepson—*Rinehart*, rev. ed., 30 p., illus. with drawings by author, paper, 95¢. Contains new section of the reproductive systems, and enlargement of the muscular system section.

**AUTOMATION EXPRESS, Vol. I, No. 1**—*International Physical Index*, 40 p., 10 issues per year, annual subscription \$57.50. Comprehensive digest of current Russian literature dealing with automation topics, in English translation.

**BASIC ELECTRICITY FOR COMMUNICATIONS**—William H. Timbie, rev. by Francis J. Ricker—*Wiley*, 2nd ed., 538 p., illus., \$6.25. Now extended to such areas as industrial electronics and instrumentation.

**BIOLOGICAL TREATMENT OF SEWAGE AND INDUSTRIAL WASTES, Vol. II: Anaerobic Digestion and Solids-Liquid Separation**—Joseph McCabe and W. W. Eckenfelder Jr., Eds.—*Reinhold*, 330 p., illus., \$11.50. For engineers and scientists engaged in the field of waste-water treatment

**CASTILLA'S SPANISH AND ENGLISH TECHNICAL DICTIONARY, Vol. I: English-Spanish, 1611 p.; vol. II: Spanish-English, 1136 p.**—*Philosophical Lib.* \$45.00 per set. Emphasis is on technological branches likely to develop most rapidly. Terms of pure science are excluded, but commercial and legal terms with technical connotations are included.

**CHEMICAL PUBLICATIONS: Their Nature and Use**—M. G. Mellon—*McGraw-Hill*, 3rd ed., 327 p., illus., \$7. Takes into account the many changes which have occurred in chemical literature during the last two decades.

**CONCISE INTERNATIONAL DICTIONARY OF MECHANICS & GEOLOGY: English, French, German, and Spanish**—S. A. Cooper—*Philosophical Lib.*, 400 p., \$6. For the practical engineer and the manufacturer doing business with foreign countries.

**CRIME AND INSANITY**—Richard W. Nice, Ed.—*Philosophical Lib.*, 280 p., \$6. This symposium gives the student and interested layman the views of authorities in the fields of criminal law, psychiatry and psychology.

**DO COWS HAVE NEUROSES?**—June Bingham—*National Assn. for Mental Health*, rev. ed., 16 p., illus., paper, 25¢. Not really about cows. Word-and-picture comparisons of the "normal" person, the neurotic and the psychotic.

**EXPERIMENTS IN PHYSICAL SCIENCE**—Allen D. Weaver and James F. Glenn—*Brown, W. C.*,

196 p., illus., paper, \$3. A manual for the beginning science student.

**THE EVOLUTION OF DEVELOPMENT**—John Tyler Bonner—*Cambridge Univ. Press*, 103 p., illus., \$3.50. In three lectures the author discusses the origin, the function and the extension of development of higher forms of life.

**EYE IRRITATION FROM SOLAR RADIATION OF ORGANIC COMPOUNDS AND NITROGEN DIOXIDE**—Erskine E. Harton, Jr., and Calvin C. Bolze—*Air Pollution Foundation*, 64 p., illus., paper, \$3. Reports on experiments made on a number of olefins, paraffins, ring compounds, solvents, and other organic materials.

**FUNDAMENTALS OF HIGH POLYMERS**—O. A. Battista—*Reinhold*, 140 p., illus., \$5.50. A readable introduction to a complex subject.

**HEALTH YEARBOOK 1957**—Oliver E. Byrd, Ed.—*Stanford Univ. Press*, 278 p., \$5.50. Abstracts of articles from 86 different periodicals, reflecting the research, experience, and opinion of more than 300 authors, committees, and organizations in the field of health.

**HUMAN TYPES: An Introduction to Social Anthropology**—Raymond Firth, foreword by Walter A. Fairservis, Jr.—*New American Lib.*, rev. ed., 176 p., illus., paper, 50¢. Discusses the geographical and historical factors that determine the development of racial groups.

**IMPROVING COLLEGE BIOLOGY TEACHING**—Subcommittee on College Education of the Committee on Educational Policies, Thomas S. Hall, Chairman—*Nat. Acad. of Sciences-Nat. Res. Council*, 70 p., illus., \$1. Reading guide on college teaching included.

**ISAAC NEWTON'S PAPERS & LETTERS ON NATURAL PHILOSOPHY AND RELATED DOCUMENTS**—I. Bernard Cohen, Ed., Robert E. Schofield assisting—*Harvard Univ. Press*, 501 p., illus., \$12.50. The actual texts of Newton's publications, other than *Principia* and *Optics*.

**LANDSCAPES OF ALASKA: Their Geologic Evolution**—Howell Williams, Ed.—*Univ. of Calif. Press*, 148 p., photographs and maps, \$5. A beautiful book in which the U. S. Geological Survey and the National Park Service have cooperated.

**MAKERS OF MATHEMATICS**—Alfred Hooper—*Random House*, 402 p., illus., paper, 95¢. The story of mathematics from the time man first began to use his ten fingers for counting until he mastered the abstractions of the infinitesimal calculus.

**MATHEMATICAL TABLES AND FORMULAE**—F. J. Camm—*Philosophical Lib.*, 144 p., \$2.75. Brings together, for easy reference, the most frequently consulted arithmetical, trigonometrical and algebraic tables and formulae.

**MATHEMATICS FOR THE LAYMAN**—T. H. Ward Hill—*Philosophical Lib.*, 343 p., illus., \$4.75. For the general reader, shows how mathematics developed over the centuries. Exercises are included.

**MULTIVALENT FUNCTIONS**—W. K. Hayman—*Cambridge Univ. Press*, 151 p., paper, \$4. This

text requires previous knowledge of function theory.

**NAMES ON THE LAND**—George R. Stewart—*Houghton*, rev. ed., 511 p., illus., \$6. The author of *Storm* and *U. S.* 40 traces here the origin and history of place-names in the U. S., with new chapters of Alaskan and Hawaiian names.

**1001 QUESTIONS ANSWERED ABOUT ASTRONOMY**—James S. Pickering—*Dodd*, 420 p., illus., \$6. Here a staff member of the Hayden Planetarium answers questions about the universe around us. Tables, bibliography and index add to the book's value.

**THE PHYSIOLOGY OF MAN**—L. L. Langley and E. Cherskin—*McGraw-Hill*, 2nd ed., 674 p., illus., \$6.95. A textbook with stress on presenting the basic physiological processes in an integrated and meaningful pattern.

**THE POOL AND IRVING VILLAGES: A Study of Hopewell Occupation in the Illinois River Valley**—John C. McGregor—*Univ. of Ill. Press*, 232 p., illus., paper, \$3.50. First report in a long-range program of study of Illinois archeology

**THE PRESERVATION OF YOUTH: Essays on Health**—Moses Ben Maimon (Maimonides), translated from Arabic (Fi Tadbir as-Sihha), introduction by Hirsch L. Gordon—*Philosophical Lib.*, 92 p., \$2.75. Born in Spain in 1135, Maimonides became a physician of great fame in Egypt.

**PRINCIPLES OF ELECTRONIC INSTRUMENTS**—Gordon R. Partridge—*Prentice-Hall*, 393 p., illus., \$11. Shows how electronic instruments function, and what they can do for us.

**A SAFE WORKLOAD FOR FARMERS WITH HEART DISEASE**—*Am. Heart Assn.*, 12 p., illus., free upon request direct to publisher, 44 E. 23rd St., New York 10, N. Y. Based on studies of the amount of energy needed for different farm tasks under a variety of conditions. Known as the Purdue Farm Cardiac Research Project.

**STRANGE PLANTS AND THEIR WAYS**—Ross E. Hutchins—*Rand McNally*, 96 p., illus. with photographs by author, \$2.95. Besides describing fascinating ways of nature, contains some practical suggestions for the young naturalist.

**STRUCTURE AND EVOLUTION OF THE STARS**—Martin Schwarzschild—*Princeton Univ. Press*, 296 p., illus., \$6. Summarizes the present status of the theory of stellar evolution.

**TEXTBOOK OF DENDROLOGY: Covering the Important Forest Trees of the United States and Canada**—William M. Harlow and Ellwood S. Harrar—*McGraw-Hill*, 4th ed., 561 p., illus., \$8.75. For beginning students of forestry.

**THEORETICAL CRIMINOLOGY**—George B. Vold—*Oxford Univ. Press*, 334 p., \$5. A text for advanced courses in Criminological Theory, Social Theory, and Social Conflict.

**THIS IS THE CHALLENGE: The Benton Reports of 1956-1958 on the Nature of the Soviet Threat**—William Benton, Edward W. Barrett, Ed., foreword by John Gunther—*Assoc. College Presses*, 254 p., illus. \$3.95. The former Senator from Connecticut here presents the problem of growing Soviet strength in education and in technical skill.

**UNIT PROCESSES IN ORGANIC SYNTHESIS**—P. H. Groggins, Ed.—*McGraw-Hill*, 5th ed., 1070 p., illus., \$17.50. Presents the industrial technique used in converting organic raw materials into usable products through the mastery of unit processes.

**WE THE TIKOPIA: A Sociological Study of Kinship in Primitive Polynesia**—Raymond Firth, preface by Bronislaw Malinowski—*Allen, G. (Macmillan)*, 2nd ed., 605 p., illus. \$7.50. First published in 1936, it became a classic of modern social anthropology and had long been out of print.

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## MODERN JUDO and Self-defence

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