

# 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.

**ACTIVATION ANALYSIS HANDBOOK**—R. C. Koch—*Academic*, 219 p., \$8. Describes theory of activation analysis, irradiation facilities and preparation of samples, followed by tabulation of data for each element.

**ALL ABOUT UNDERSEA EXPLORATION**—Ruth Bridze—*Random House*, 145 p., illus., \$1.95. Describes for boys and girls the scientific research of sea-going oceanographers.

**A BIOGRAPHY OF THE SEA: The Story of the World Ocean, Its Animals and Plant Population, and Its Influence on Human History**—Richard Carrington—*Basic Bks.*, 286 p., photographs, \$5. For the general reader.

**BIOLOGY: A Basic Science**—Elwood D. Heiss and Richard H. Lape—*Van Nostrand*, 2nd ed., 689 p., illus., \$5.56. Secondary school textbook stressing experimentation.

**COMPARATIVE BIOCHEMISTRY OF PHOTOREACTIVE SYSTEMS**—Mary Belle Allen, Ed.—*Academic*, 437 p., illus., \$12. Papers presented at the symposium on Comparative Biology of the Kaiser Foundation Research Institute.

**ECOLOGY OF INLAND WATERS AND ESTUARIES**—George K. Reid—*Reinhold*, 375 p., illus., \$7.80. Introduction to the elemental processes that operate in lakes, streams and estuaries as dynamic systems.

**EINSTEIN ON PEACE**—Otto Nathan and Heinz Norden, Eds., preface by Bertrand Russell—*Simon & Schuster*, 704 p., \$8.50. A historical

view of the peace movement in modern times, recorded in the correspondence between Einstein and many famous men of his generation.

**THE ENCYCLOPEDIA OF SPECTROSCOPY**—George L. Clark, Ed.—*Reinhold*, 787 p., \$25. Authoritative reference to the entire field of spectroscopy, from Absorption spectrophotometry through X-ray emission spectrometry, by more than 160 internationally recognized contributors.

**ETHNOGRAPHIC BIBLIOGRAPHY OF NORTH AMERICA**—George Peter Murdock—*Human Relations Area Files (Taplinger)*, 3rd ed., 395 p., maps, paper, \$6.75. Bibliography on primitive and historical cultures, by tribal groups, from Arctic Coast Eskimos to Zulus.

**THE GENTLE LEGIONS**—Richard Carter—*Doubleday*, 335 p., \$4.50. A journalist's study of the economics, faults and merits of the national voluntary health organizations.

**GOALS FOR AMERICANS: Programs for Action in the Sixties**—President's Commission on National Goals, Henry M. Wriston, Chmn.—*Prentice-Hall*, 372 p., \$3.50; paper \$1. Report includes chapters on technological change, education, and the arts and sciences.

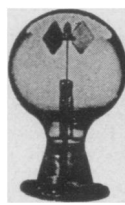
**THE GOLDEN AGE OF AMERICAN ANTHROPOLOGY**—Margaret Mead and Ruth L. Bunzel, Eds.—*Braziller*, 630 p., illus., \$10. Covers the period when the young science could still draw on the living memories of American Indians and could use still current practices to illustrate the records of early travelers.

**GRAPHIC SURVEY OF BIOLOGY**—A. M. Weckstein and Benjamin de Leon—*Oxford Bk.*, rev. ed., 459 p., illus., \$2.10; paper, \$1.25. Biology course for secondary schools.

**GRAPHIC SURVEY OF PHYSICS WITH COLLEGE ENTRANCE SUPPLEMENT**—Alexander Taffel—*Oxford Bk.*, rev. ed., 414 p., illus., \$2.10; paper, \$1.25. Textbook for high school level.

**A HISTORY OF ANCIENT GEOGRAPHY: Among the Greeks and Romans from the Earliest Ages till the Fall of the Roman Empire, Vols. I and II**—E. H. Bunbury, new introd. by W. H. Stahl—*Dover*, 2nd ed., 666 p., 743 p., maps, set of 2 vols., \$12.50. Reprint of 1883 edition.

**HORMONES IN HUMAN PLASMA: Nature and Transport**—Harry N. Antoniadis, Ed., foreword by George W. Thorn—*Little*, 667 p., illus., \$25.



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**THE HUMAN USE OF THE EARTH**—Philip L. Wagner—*Free Press*, illus., 270 p., \$6. Shows man as the inhabitant and beneficiary of artificial environments, suggests how different human cultures are modified by the interaction of topography, climate, social and technical development.

**INTRODUCTION TO SEMIMICRO QUALITATIVE ANALYSIS**—C. H. Sorum—*Prentice-Hall*, 3d. ed., 239 p., \$3.50. Main changes in this edition are in the details of procedures.

**LABORATORY GUIDE FOR HIGH SCHOOL BIOLOGY**—Brother Joseph A. Kuntz and Brother Edward J. Dury—*Holt, Rinehart & Winston*, 214 p., illus., paper, teacher's ed. \$3.20; student ed. \$1.80. For use with any textbook.

**THE NATIONAL WATERCRAFT COLLECTION**—Howard I. Chapelle—*U.S. National Museum (GPO)*, 327 p., illus., \$3.50. Description of Smithsonian collection of ship models, first established in 1884 and expanded by later models used in American exhibits at international expositions.

**NINETY SECONDS TO SPACE: The X-15 Story**—Jules Bergman—*Hanover House (Doubleday)*, 224 p., photographs, \$4.50. The story of experimental rocket-aircraft designed to take man into space.

**THE PHYSICS OF SOUND**—Russell B. Hastings—*Bruce Pub.*, 259 p., illus., \$7.50. A textbook primarily for music majors, designed to awaken their curiosity about the principles involved, with 40 experiments.

**PRACTICAL PROGRAMS FOR THE GIFTED**—Jack Kough—*Science Research Associates*, 192 p., \$3.50. Written for educators as a reference to the various steps in establishing and administering a school program for gifted students. Many case studies included.

**READING AND THE PSYCHOLOGY OF PERCEPTION**—Hunter Diack—*Philosophical Lib.*, 178 p., \$6. Critical survey of Gestalt theory, brief history of reading theory and author's own observations of how children see words.

**THE RECORDING EYE: A Hundred Years of Great Events as Seen by the Camera, 1839-1939**—Helmut and Alison Gernsheim—*Putnam*, 254 p., 260 photographs, \$7.95. Shows many firsts in photography, railroading, aviation, exploration and discoveries, with commentaries.

**RECORDS OF THE AMERICAN-AUSTRALIAN SCIENTIFIC EXPEDITION TO ARNHEM LAND, Vol. 2: Anthropology and Nutrition**—Charles P. Mountford, Ed.—*Melbourne Univ. Press (Cambridge Univ. Press)*, 515 p., illus., \$19.50. Deals with the health and related aspects of the Australian aborigines, as well as their art and material culture.

**REPAIRING TRANSISTOR RADIOS**—S. Libes—*Rider, J. F.*, 159 p., illus., paper, \$3.50. A text and reference guide to particular problems.

**RUSSIA**—Charles W. Thayer and Editors of *Life*—*Time Inc. (Life Bks. Dept.)*, 152 p., photographs, map, \$2.95 on open end subscription basis (6 vols. a year). First in *Life World Library Series*, designed to show how people live in different parts of the world.

**SCIENCE PROJECTS HANDBOOK**—Shirley Moore, Ed., Science Clubs of America—*Science Service*, 253 p., illus., paper, 55¢. A stimulating guide for teen-age boys and girls, full of hints and ideas culled from thousands of projects that have won recognition in science fairs and the National Science Talent Search.

**SOLID GEOMETRY: A Brief Elementary Course for College Students**—J. L. Simpson—*Harper*, 97 p., illus., \$2.75. Only prerequisites assumed are knowledge of plane geometry and a little elementary algebra.

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**SOLUTION OF EQUATIONS AND SYSTEMS OF EQUATIONS**—A. M. Ostrowski—*Academic*, 202 p., \$6.80. Based on course given at the invitation of the National Bureau of Standards in 1952.

**STERIC ASPECTS OF THE CHEMISTRY AND BIO-CHEMISTRY OF NATURAL PRODUCTS**—J. K. Grant and W. Klyne, Eds.—*Cambridge Univ. Press*, 137 p., illus., \$5.50. Symposium dealing with the stereochemistry of substances of plant and animal origin.

**THE STORY OF STEREO**—John Sunier—*Gernsback*, 160 p., illus., \$5; paper \$2.95. Developments in stereophonic sound on film, on tape and on discs.

**THE STORY OF THE ATOM**—Mae and Ira Freeman—*Random House*, 80 p., illus. by Rene Martin, \$1.95. In simplest terms tells children what atoms are and how scientists put them to work.

**STYLE MANUAL FOR BIOLOGICAL JOURNALS**—Committee on Form and Style of the Conference of Biological Editors—*AIBS*, 92 p., \$3. Designed for research workers and students preparing manuscripts for publication in biological journals.

**THE TALE OF A POND**—Henry B. Kane—*Knopf*, 120 p., illus. by author, \$3. Freshwater biology to be enjoyed by boys and girls.

**THEORETICAL AND PRACTICAL PROBLEMS OF MEDICINE AND BIOLOGY IN EXPERIMENTS ON MONKEYS**—I. A. Utkin, Ed., transl. from Russian by Ruth Schachter—*Pergamon*, 276 p., illus., \$9. Based on experimentation done at the USSR Institute of Experimental Pathology and Therapy.

**THE THEORY AND DESIGN OF INDUCTANCE COILS**—V. G. Welsby, foreword by Sir Gordon Radley—*Wiley*, 2nd ed., 232 p., illus., \$6. Of importance to telecommunication engineers.

**TOXIC PHOSPHORUS ESTERS: Chemistry, Metabolism, and Biological Effects**—Richard D. O'Brien—*Academic*, 434 p., \$14.50. Sourcebook on organophosphate research and evaluation of the effects of poisoning in animals and plants.

• Science News Letter, 79:12 January 7, 1961

## Questions

**AGRICULTURE**—What is the advantage of a new method for drying grains by solar-heated systems? p. 5.

**MINERALOGY**—What is molybdenum particularly used for? p. 3-4.

**ROCKETS AND MISSILES**—Why do third stage rockets need larger skirts? p. 7.

Photographs: Cover, Permal, Inc.; p. 3, F. C. Livingstone; p. 5, James Fitzpatrick; pp. 7 and 10, U. S. Air Force; p. 16, W. R. Grace & Co.

## Do You Know

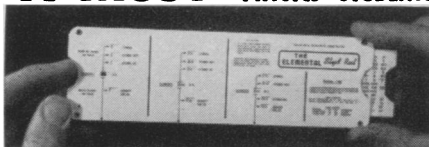
Heart disease causes a little more than half of all the deaths in the U. S.

A pearl oyster found in Tokyo, Japan, measuring a little more than four inches square, contained 620 pearls.

About four-fifths of the fresh vegetable exports of the United States, more than half of the potatoes and a third of the processed vegetables go to Canada.

• Science News Letter, 79:13 January 7, 1961

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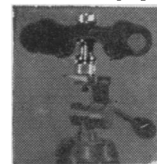
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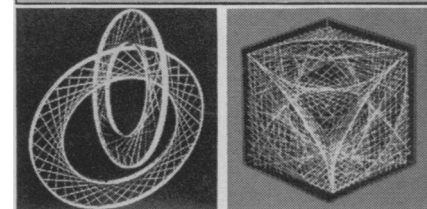
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