

# 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 BIOLOGICAL AND MEDICAL PHYSICS**, Vol. VIII—Cornelius A. Tobias and John H. Lawrence, Eds.—Academic Press, 457 p., \$15. Includes contributions on chemical elements of the blood, neutron activation analysis, heavy ions in radiobiology, the hypothalamus and thyroid, and the origin of life on earth and elsewhere.

**ADVANCES IN CLINICAL CHEMISTRY**, Vol. 5—Harry Sobotka and C. P. Stewart, Eds.—Academic Press, 329 p., illus., \$12. Among other subjects treats galactosemia, the malabsorption syndrome, haptoglobins, and microbiological assay methods for vitamins.

**THE ADVENTURE OF LANGUAGE**—Michael Girdansky—Prentice-Hall, 347 p., \$5.95. A linguist's reflections on language origins, the psychology of diverse languages, sounds and scripts, grammar, and mathematical analysis of language.

**AMERICAN DOCUMENTATION**: State of the Art of Documentation—Saul Herner and others—Am. Documentation Institute, 57 p., illus., paper, \$2. Reprint of symposium papers and discussion on methods of information search, indexes, equipment for retrieval, and U.S. scientific information centers.

**BETWEEN ARAB AND ISRAELI**—Lt. Gen. E. L. M. Burns—Obolensky, 336 p., \$6.50. A study in international diplomacy, giving a record of the experience as a truce negotiator in the service of the United Nations in the Middle East.

**COMPARATIVE NUTRITION OF MAN AND DOMESTIC ANIMALS**, Vol. 1—H. H. Mitchell—Academic Press, 701 p., illus., \$25. Presents a critical discussion and summary of present knowledge on the nutrient requirements of the animal body, requirements represented by nutrient expenditures.

**THE COMPUTER AND THE BRAIN**—John von Neumann—Yale Univ. Press, 82 p., paper, \$1.45. Reprint (1958), based on the late mathematician's unfinished lectures on the possibilities of copying an extremely simplified model of the living brain for man-made automata.

**CONCEPTS OF FOREST ENTOMOLOGY**—Kenneth Graham—Reinhold, 388 p., illus., \$9.50. Text

explains the theory on which current insect control practices are based and describes the purposes, problems and methods of forest damage control.

**DIFFUSION AND MEMBRANE TECHNOLOGY**—Sidney B. Twiner with sections by Lawrence P. Miller and W. E. Brown—Reinhold, 420 p., illus., \$12. Provides an analysis of barrier materials used in coatings, plastic films and battery separators, with detailed summary of the theory of diffusion in liquids.

**ELECTROPLATERS' PROCESS CONTROL HANDBOOK**—D. Gardner Foulke and Francis E. Crane Jr., Eds.—Reinhold, 445 p., illus., \$14.75. Practical presentation of control methods available to chemists, metallurgists and engineers, with extensive previous metal analytical section.

**EXPLORING WITH THE BARTRAMS**—Ann and Myron Sutton—Rand McNally, 224 p., illus. and maps by Paula A. Hutchison, photographs, \$3.95. Juvenile biography of the father-son team of naturalists who explored the American frontier 200 years ago.

**FOREVER FREE**—Joy Adamson—Harcourt, 179 p., photographs, maps, \$5.95. The story of the guardianship of Elsa's cubs, three young African lions that had to be raised in the wild.

**FUNDAMENTALS OF COLLEGE CHEMISTRY**—J. H. Wood and others—Harper, 531 p., illus., \$6.75. Introductory chemistry text designed for the nonchemistry major.

**GAMES, GODS AND GAMBLING**—F. N. David—Hafner Pub. Co., 275 p., illus., \$6.50. Traces the origins and history of probability and statistical ideas from the earliest times to the Newtonian era, from games played with dice and astragali to the concept of randomness and the calculus of probabilities.

**GOVERNMENT AND SCIENCE**: Their Dynamic Relation in American Democracy—Don K. Price—Oxford Univ. Press, 203 p., paper, \$1.65. Reprint (1954), considers problems and dangers, security and publicity risks, and how to achieve the most constructive cooperation.

**THE IDEA OF PREHISTORY**—Glyn Daniel—World Pub. Co., 220 p., photographs, \$4.50. Lectures discussing the development of the idea of prehistory in Western Europe, in particular British.

**INDIAN FISHING AND CAMPING**—Robert Hofstede (Gray-Wolf)—Morrow, 96 p., illus. by author, \$2.75. Shows boys how Indians make their equipment.

**INTERNATIONAL SCIENTIFIC ORGANIZATIONS**: A Guide to Their Library, Documentation and Information Services—Kathrine O. Murra, Ed.—Library of Congress (GPO), 794 p., \$3.25. Lists the addresses and services, publications and other relevant activities of some 450 international organizations.

**A LABORATORY GUIDE IN CHEMISTRY**—Joseph H. Roe—Mosby, 4th ed., 262 p., illus., ring-bound, \$3.75. Contains new experiments on acidimetry

and alkalimetry, rate of chemical reaction, and movement of molecules.

**THE MENTAL PATIENT COMES HOME**—Howard E. Freeman and Ozzie G. Simmons—Wiley, 309 p., \$7.95. Reports the results of a follow-up study of 649 mental patients during the year after hospitalization.

**METHODS IN CARBOHYDRATE CHEMISTRY**, Vol. II: Reactions of Carbohydrates—Roy L. Whistler and M. L. Wolfrom, Eds.—Academic Press, 572 p., \$19.50. Comprehensive reference on reliable methods for use in oxidation products, reduction products, derivative of nitrogen bases, etherification, esterification, acetalations, and unsaturated sugars.

**MODERN MATERIALS**: Advances in Development and Applications, Vol. 3—Henry H. Hausner, Ed.—Academic Press, 475 p., diagrams, \$15. Reports on progress in high-temperature plastics, lubricating oils, ferrites, ferroelectric materials and liquid metals.

**NATURAL LAW AND MODERN SOCIETY**—John Cogley and others—World Pub. Co., 285 p., \$4. Examines the continuing relevance of the "higher law" tradition to jurisprudence, public consensus, sociology, teleology and culture.

**1001 HOUSE PLANT QUESTIONS ANSWERED**—Stanley Schuler—Van Nostrand, 278 p., illus. by Lombard C. Jones, \$5.95. A useful encyclopedia on general culture and specific information on popular houseplants, for the indoor gardener.

**THE PIGMENT CELL**: Molecular, Biological and Clinical Aspects. Parts I & II—Vernon Riley and Joseph G. Fortner, Eds.—N.Y. Acad. of Sciences, Annals, Vol. 100, 1123 p., illus., paper, \$12. Investigations shed light on such questions as the locus of origin of melanin granules, the role of hormones in melanoma, and the effects of radiation spectra on cell pigments.

**PRACTICAL RADIO SERVICING**—William Marcus and Alex Levy—McGraw, 2nd ed., 624 p., illus., \$11.95. A thorough and up-to-date self-study book presenting procedures for servicing all types of radio receivers and phonographs in use.

**PRINCIPLES OF CHEMISTRY**—Joseph H. Roe—Mosby, 9th ed., 388 p., illus., \$5.95. Introductory textbook of inorganic, organic and physiological chemistry for nurses and students of applied chemistry.

**THE PROCESS OF PRIMARY SOCIALIZATION IN CANINE AND HUMAN INFANTS**—J. P. Scott—Soc. for Research in Child Development (Child Development Pubs.), 47 p., paper, \$1.50. Monograph describing the way in which the young animal of any species becomes attached to other members of the same species.

**SCIENTIFIC CREATIVITY**: Its Recognition and Development—Calvin W. Taylor and Frank Barron, Eds.—Wiley, 419 p., \$8.75. Selected papers from the proceedings of the first three University of Utah conferences on "The Identification of Creative Scientific Talent."

**THE SPACE GUIDEBOOK**—William J. Weiser—Coward-McCann, rev. ed., 325 p., photographs, \$5.75. Answers questions the general reader might ask about the exploration of space and the hardware used.

**TECHNIQUES IN PROTEIN CHEMISTRY**—J. Leggett Bailey—Elsevier (N.Y.), 310 p., illus., \$11. Concerned with methods for sequence determination, selective cleavage of peptide chains, amino acid analysis and other techniques required in structural work on proteins.

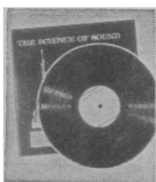
**WEBSTER'S SEVENTH NEW COLLEGIATE DICTIONARY**—Philip B. Gove, Ed.-in-Chief—Merriam, 2,720 p., illus., indexed, \$6.75; unindexed, \$5.75. Completely revised desk dictionary based on Webster's Third New International Dictionary, modernized to include 20,000 new words, with new section on forms of address.

**WORLD RADIO TV HANDBOOK**: Broadcasting, Television, 1963—O. Lund Johansen, Ed.—Johansen (Gilfer Associates), 17th ed., 246 p., illus., maps, \$4.50; paper, \$3.25. Technical data on foreign TV broadcasting stations, information on call signs, exact location, frequencies, transmitting hours, programming, personnel, interval signal, from Aden to Zanzibar.

• Science News Letter, 83:204 March 30, 1963

## SCIENCE SPECIALS

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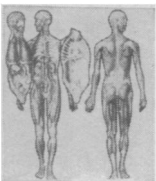


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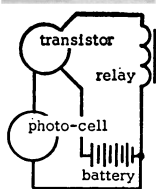


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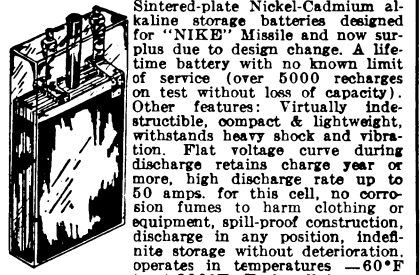


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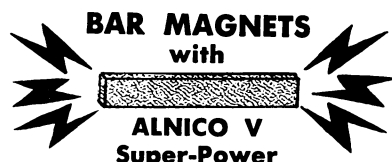
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