

# 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.

**ABC'S OF RADIONAVIGATION**—Allan Lytel—*Sams*, 96 p., illus., paper, \$1.95. Provides information on navigational systems for owners and operators of small planes and boats as well as larger commercial craft.

**THE ALCHEMISTS**—F. Sherwood Taylor—*Collier*, 192 p., illus., paper, 95¢. Gives an account of the alchemists, their ways of thought and their contributions to man's achievement.

**THE ASTRONOMICAL UNIVERSE**—Wasley S. Krogdahl—*Macmillan*, 2nd ed., 585 p., illus., photographs, maps, \$7.95. Text designed to make both the beginning student and the general reader aware of the universe around us, presenting an up-to-date account of what is presently known about the solar system, the stellar population and the universe of galaxies.

**ATLAS OF HISTOPATHOLOGY OF THE SKIN**—G. H. Percival, George L. Montgomery and T. C. Dodds—*Williams and Wilkins*, 2nd ed., 491 p., photographs, \$24.50. Provides the postgraduate student in Dermatology and Pathology with a pictorial representation of the microscopic changes found in disease of the skin, with a brief text to introduce the various sections.

**ATOMIC AND MOLECULAR PROCESSES**—D. R. Bates, Ed.—*Academic Press*, 904 p., illus., \$19.50. Intended primarily as a reference book for research scientists, this book concerns radiative and collisional processes involving atoms or molecules, with main emphasis placed on the developments which have taken place in the past decade.

**CB RADIO ANTENNA GUIDEBOOK**—David E. Hicks—*Sams*, 136 p., illus., paper, \$2.50. Intended to provide a better understanding of antennas, to help those planning to set up a station, and to aid those desiring to improve, test, or service their present system.

**CICATRICAL XEROSIS OF THE EYE**—V. E. Shevlev, transl. from Russian by Basil Haigh—*Consultants*, 130 p., illus., \$12. Blindness may result

in the critical stages of this insufficient moistening of the eyes, and in this book, the author discusses a new method of treating this condition by supplementing the deficiency of tears with saliva.

**CRUCIBLES: The Story of Chemistry**—Bernard Jaffe—*Premier Bks.*, 240 p., paper, 50¢. Told through the lives of the men and women who devoted themselves completely to science, including Trevisan, Paracelsus, Cavendish, the Curies, Dalton, and Einstein.

**CURVATURE AND HOMOMOLOGY**—Samuel I. Goldberg—*Academic Press*, 315 p., \$8.50. Intended for the reader who has taken the standard courses in linear algebra, variables, differential equations and point-set topology, this book gives a systematic and "self-contained" account of the subject and discusses problems of current interest in the field.

**FRESH WATER FISHES**—Staff of The Fisherman's Encyclopedia—*Collier*, 156 p., photographs, paper, 95¢. Tells how to identify the commonest species, and describes their habits, their food, and how to catch them.

**GEOGRAPHY**—Larvin Kennamer and A. Paul Wishart—*Steck*, 48 p., illus. by Pete Tumlinson, \$1.75. Answers, for boys and girls, to some questions concerning the physical structure of the planet earth, and how man lives on it.

**HAVING FUN WITH TRANSISTORS**—Len Buckwalter—*Sams*, 127 p., illus., paper, \$2.50. Contains thirteen unusual projects to help one learn about transistors while having fun.

**LABORATORY PRACTICE OF ORGANIC CHEMISTRY**—G. Ross Robertson and Thomas L. Jacobs—*Macmillan*, 4th ed., 383 p., illus., \$5.50. For a year's course in elementary organic chemistry aimed at chemistry majors and advanced students in biology, medicine or chemical engineering and involving complete understanding of the experiment, the underlying principles and theoretical considerations.

**LOGIC, METHODOLOGY AND PHILOSOPHY OF SCIENCE**—Ernest Nagel, Patrick Suppes and Alfred Tarski, Eds.—*Stanford Univ. Press*, 661 p., \$12.50. Proceedings of the 1960 International Congress for Logic, Methodology and Philosophy of Science, held at Stanford University in September, 1960.

**METALS AND HOW TO WELD THEM**—T. B. Jefferson and Gorham Woods—*Welding Engineer Pub. Inc.*, 2nd ed., 392 p., illus., \$2. Planned to equip the average reader with a practical knowledge of the structure and properties of metals and how these metals adapt to welding, and intended as a reference book for students, welders, plant managers and engineers.

**MOON ATLAS**—V. A. Firsoff—*Viking Press*, 32 p., illus., \$10. A general atlas of the moon that can be used for identifying lunar features.

**NEW PATTERNS IN GENETICS AND DEVELOPMENT**—C. H. Waddington—*Columbia Univ.*

*Press*, 271 p., illus., \$10. Discussing the nature and origin of structural organization at the supramolecular, cellular, and tissue levels.

**ON CANCER AND HORMONES: Essays in Experimental Biology**—Alexander Haddow and others—*Univ. of Chicago Press*, 346 p., illus., \$8.50. Twenty-seven essays on the nature and therapy of malignant disease, recent views on the biochemistry and mode of action of sex hormones, and the role of hormones in the induction and control of cancer.

**OUR HORMONES AND HOW THEY WORK**—Sarah R. Riedman—*Collier*, 127 p., illus. by Norman Gorbaty, paper, 95¢. Tells the story of hormones and glands, and the ways in which they affect the physical characteristics and changes in the human body.

**THE PHYSICAL WORLD OF THE GREEKS**—S. Sambursky, transl. from Russian by Merton Dagut—*Collier*, 288 p., diagrams, paper, \$1.50. Tells of the ancient Greek view of the world and its relation to modern scientific method.

**SPACE TRAVEL**—Heinz Gattmann, transl. from the German by M. V. Glenny—*Viking Press*, 143 p., photographs, \$5. A pictorial account of the conquest of space, including the recent achievements of the astronauts.

**SQUARE-LOOP FERRITE CIRCUITRY: Storage and Logic Techniques**—C. J. Quartly—*Prentice-Hall*, 166 p., illus., \$8. Describes the principles of operation of coincident drive stores and other more elaborate systems which have been proposed to obtain an increase in the speed of digital computers.

**TEACHING CHEMISTRY WITH MODELS**—R. T. Sanderson—*Van Nostrand*, 175 p., photographs, \$5.75. Suggests, in considerable detail, effective methods of making and using atomic and molecular models in lectures and demonstrations.

**TREATISE ON INVERTEBRATE PALEONTOLOGY**—Raymond C. Moore, Ed.—*Geological Soc. of Am.*, 259 p., illus., \$9. Text and reference book on the remains of invertebrate organisms preserved in rocks of the earth's crust.

**TROPICAL FISHES AS PETS**—Christopher W. Coates—*Collier*, 188 p., photographs, paper, 95¢. Gives information about collecting and breeding tropical fishes, noting several species in particular detail, for the owner of his first goldfish as well as for the largest commercial supply house.

**UNDERSTANDING TRANSFORMERS AND COILS**—Edward Bukstein—*Sams*, 96 p., illus., paper, \$1.95. Includes inductor theory, construction, application and testing, a glossary and a guide to transformer color codes.

**UNIFORM CRIME REPORTS FOR THE UNITED STATES, 1961**—Committee on Uniform Crime Records—*F.B.I.*, 143 p., paper, free upon request to publisher; J. Edgar Hoover, Director, (F.B.I.), U.S. Department of Justice, Washington 25, D. C. Nationwide view of crime based on police statistics made possible by the voluntary cooperation of local law enforcement agencies.

**THE VITAMIN HUNTERS**—Albert von Haller, transl. from German by Hella Freud Bernays—*Chilton Co.*, 307 p., \$5.95. Tells the story of the scientists who discovered the cause and cure of beriberi, scurvy, pellagra, rickets and other nutritional diseases.

**THE WORLD OF ICE**—James L. Dyson—*Knopf*, 292 p., maps, photographs, \$6.95. Describes glaciers and ice sheets, tells us where the ice came from, how it formed, what it will do in the future, and how it is affecting the lives of men and other creatures.

**YOUR BODY: Its Anatomy and Nutrition**—S. William Kalb and Christian A. Hovde—*Hammond*, 126 p., illus., \$3.95. Explains basic principles of human anatomy and nutrition and includes a glossary of medical terms, male and female "cut-out" anatomy charts in color, and a 32-page pocket calorie counter.

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