

# 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.

**ADVENTURES IN ALGEBRA: A Tutor Text**—Norman A. Crowder and Grace C. Martin—*Doubleday*, 350 p., \$3.95. New approach to self-teaching of the underlying ideas and concepts of algebra.

**AQUATIC PLANTS OF THE PACIFIC NORTHWEST WITH VEGETATIVE KEYS**—Albert N. Steward, La Rea J. Dennis and Helen M. Gilkey—*Ore. State College*, 184 p., paper, \$2.50. Area studied includes Oregon, Washington, British Columbia and Alaska.

**THE ARITHMETIC OF COMPUTERS: An Introduction to Binary and Octal Mathematics**—Norman A. Crowder—*Doubleday*, rev. ed., 472 p., \$3.95. Designed for self-instruction in number systems used in electronic computers, by method based on experience with automatic teaching methods.

**THE BIOLOGICAL BASIS OF HUMAN FREEDOM**—Theodosius Dobzhansky—*Columbia Univ. Press*, 139 p., paper, \$1.25. Reprint of 1956 book which interprets some of the philosophical im-

plications of modern biology in terms the layman can understand.

**THE BIOLOGIST'S HANDBOOK OF PRONUNCIATIONS**—Edmund C. Jaeger—*Thomas, C. C.*, 317 p., illus. by M. Van Dame and author, \$6.75. Includes 9,000 commonly used generic names of plants and animals, Latin adjectives and adjectival compounds.

**HIST INFLUENCE ON PARASITE PHYSIOLOGY**—Leslie A. Stauber, Ed., introd. by Theodor von Brand—*Rutgers Univ. Press*, 96 p., illus., paper, \$2. Proceedings of the Annual Conference on Protein Metabolism.

**HOW TO STUDY AND TAKE EXAMS**—Lincoln Pettit—*Rider, J. F.*, 81 p., illus., paper, \$1. Written to help the student and job applicant to do his best and learn from his mistakes.

**PAPER**—Jerome S. Meyer—*World Pub. Co.*, 91 p., photographs, \$3. History of papermaking from its beginnings in 105 A.D. to the present, and survey of the modern industry.

**PERCHLORATES: Their Properties, Manufacture and Uses**—Joseph C. Schumacher—*Reinhold*, 257 p., illus., \$8.75. For the research worker.

**PHYSICS**—Physical Science Study Committee, preface by James R. Killian, Jr.—*Heath*, 656 p., illus., \$5.48. Improved beginning physics text, presenting physics not as a mere body of facts but basically as a continuing process by which men seek to understand the nature of the physical world.

**PHYSICS: Laboratory Guide**—Physical Science Study Committee—*Heath*, 87 p., illus., paper, \$1.36. Developed as an integral part of the PSSC course in physics with experiments so designed that students investigate physical phenomena rather than verify known conclusions.

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**REACTIONS BETWEEN COMPLEX NUCLEI: Proceedings of the Second Conference**—Alexander Zucker, Frederick T. Howard and Edith C. Halbert, Eds.—*Wiley*, 319 p., illus., \$7. Compendium of recent advances in the rapidly developing field of heavy-ion nuclear physics.

**RECOMMENDATIONS FOR EDUCATION IN THE JUNIOR HIGH SCHOOL YEARS**—James Bryant Conant—*Educ. Testing Service*, 46 p., paper, 50¢. Addressed to school boards, the recommendations are based on observations made of 237 schools during the last academic year.

**SCIENCE AND MEDICINE OF EXERCISE AND SPORTS**—Warren R. Johnson, Ed.—*Harper*, 740 p., illus., \$12. Technical symposium for professional people and graduate students.

**SELF-ORGANIZING SYSTEMS: Proceedings of an interdisciplinary conference**—Marshall C. Yovits and Scott Cameron, Eds.—*Pergamon*, 322 p., illus., \$8.50. Papers on Perception of the Environment, Effects of Environmental Feedback, Learning in Finite Automata, and Structure of Self-Organizing Systems.

**SOURCE BOOK IN ASTRONOMY: 1900-1950**—Harlow Shapley, Ed.—*Harvard Univ. Press*, 423 p., illus., \$10. Contributions of interest to both the astronomer and the general reader, illustrating the vigorous march of astronomy during the first fifty years of the twentieth century. The selections include original reports by Einstein, Russell and Eddington.

**STATIONS IN SPACE**—Donald Cox—*Holt, Rinehart and Winston*, 56 p., illus. with drawings by W. A. Kocher, \$2.95. Gives young readers facts and plans about space exploration.

**THE STORY OF HORSES**—Dorothy E. Shuttlesworth—*Garden City Bks.*, 57 p., illus. with drawings by M. Kalmenoff, \$2.95. For boys and girls, profusely illustrated.

**STUDENT MANUAL**—Roy Dubisch—*Van Nostrand*, 63 p., illus., paper, \$1. To accompany *INTRODUCTION TO MODERN ALGEBRA* by John L. Kelley used in the television course on Modern Algebra on "Continental Classroom."

• Science News Letter, 78:316 November 12, 1960

## Do You Know

A grand piano's most powerful sounds run from 70 to 95 decibels—not likely to damage the ear.

A total of 160 Russian vessels with total crews of 25,000 were reported to be fishing off the Newfoundland banks during the summer of 1960.

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