

Books of the Week

For the editorial information of our readers, books received for review are listed. For convenience purchase of any U. S. Book in print, priced at 95¢ or over, 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.

THE ADVENTURE BOOK OF UNDERWATER LIFE—Carleton Ray—*Capitol Pub. (Golden Press)*, 96 p., illus., with kit, \$2.95. Kit contains brine shrimp eggs, and equipment and instructions for breeding them.

AMERICAN TEACHING ABOUT RUSSIA—Cyril E. Black and John M. Thompson, Eds.—*Ind. Univ. Press*, 189 p., \$4.50. Examines the status of Russian studies in U. S. graduate, undergraduate and secondary schools.

THE ANTECEDENTS OF MAN: An Introduction to the Evolution of the Primates—W. E. Le Gros Clark—*Quadrangle Bks.*, 374 p., illus., \$6. Systematic examination of the development of the major anatomical systems of the primate order and its subdivisions.

ASSESSMENT OF HUMAN MOTIVES—Gordon W. Allport and others, Gardner Lindzey, Ed.—*Grove*, 273 p., paper, \$1.95. Reprint, first published in 1958.

THE BIOLOGY OF MYCORRHIZA—J. L. Harley—*Interscience*, 233 p., illus., \$8.75. For biologists, presents critical review of the experimental evidence of the ways in which mycorrhizal organs function.

CAREERS FOR WOMEN IN THE PHYSICAL SCIENCES—Women's Bureau—*GPO*, 77 p., illus., paper, 35¢. Reviews the kind of work women are doing in chemistry, physics, geology, astronomy and meteorology.

CHEMISTRY FOR OUR TIMES—Elbert C. Weaver and Laurence S. Foster—*McGraw*, 3rd ed., 666 p., illus., \$5.72. Elementary chemistry using inductive approach, with emphasis on principles.

COMPUTERS AND HOW THEY WORK—James D. Fahnstock—*Ziff-Davis*, 228 p., illus., \$4.95. Describes the principles behind electronic calculating machines, their manufacture and operation.

ELEMENTS OF CARTOGRAPHY—Arthur H. Robinson—*Wiley*, 2nd ed., 343 p., illus., \$8.75. On the planning, designing and construction of maps as media for communication or research.

FLAGS OF THE U.S.A.—David Eggenberger—*Crowell*, 206 p., illus., \$4.50. Step-by-step historical development of the American flag.

A GUIDE TO THE PLANETS—Patrick Moore—*Norton*, rev. ed., 254 p., illus., \$6.50. Has chapter suggesting useful work for the amateur.

HANDBOOK OF ELECTROCHEMICAL CONSTANTS—Roger Parsons—*Academic*, 110 p., \$6. Pocket-size reference work.

INFECTIOUS DISEASES OF ANIMALS: Diseases Due to Bacteria, Vol. 1 and 2—A. W. Stableforth and I. A. Galloway, Eds.—*Academic*, 810 p., illus., \$33 per set; \$18 each. Reference work for researchers and post-graduate students in veterinary field and in public health.

INTERNATIONAL AUTOMOBILE PARADE 1960,—Arthur Logos, Ed.—*Chilton Co.*, 3rd ed., 308 p., illus., \$10. First American edition of survey of European and American new models, with complete list of data on each.

INTERNATIONAL DEVELOPMENT REVIEW, Vol. I, No. 1—Gove Hambidge, Ed.—*Soc. for International Development*, 64 p., illus., paper, quarterly, subscription included in membership, \$10 annually. Articles and information about organization of and experience with technical assistance to underdeveloped countries.

KNOW YOUR WOODS—Albert Constantine, Jr.—*Home Craftsman*, 384 p., illus., \$5.75. Helps identify trees, woods and veneers, and gives their principal uses.

LANGUAGE CHANGE AND LINGUISTIC RECONSTRUCTION—Henry M. Hoenigswald—*Univ. of Chicago Press*, 168 p., \$5. Monograph on procedures which lead to the recovery of lost language structures.

THE LORE AND LANGUAGE OF SCHOOLCHILDREN—Iona and Peter Opie—*Oxford Univ. Press*, 417 p., maps, \$8. Based on information collected from 5,000 British schoolchildren, it records their primitive rhymes and chants, rites, superstitious beliefs, and seasonal customs.

THE MEANING OF DEATH—Herman Feifel, Ed.—*McGraw*, 351 p., \$6.50. Contributors encompass fields of anthropology, medicine, physiology, psychology and philosophy.

MEDICINE AND SOCIETY IN AMERICA, 1660-1860—Richard Harrison Shryock—*N. Y. Univ. Press*, 182 p., \$4. Brief interpretation of medical developments during this country's first two centuries.

MICROORGANISMS AND SOIL FERTILITY—Walter Beno Bollen—*Ore. State College*, 24 p., paper, \$1. Monograph on the function of soil microorganisms in relation to the crop-producing power of the soil.

MOVING ENVELOPES OF STARS—V. V. Sobolev, transl. from Russian by Sergei Gaposchkin—*Harvard Univ. Press*, 106 p., \$4.75. Detailed study of phenomena occurring in the ejected envelopes of stars and planetary nebulae.

PAPER: The Fifth Wonder—John H. Ainsworth—*Thomas Printing & Pub. Co.*, 2nd rev. ed., 352 p., illus., \$5. The story of paper making and its uses.

PEOPLE UNDER PRESSURE—Albert M. Barrett—*Twayne*, 99 p., \$3. Discusses various types of tensions.

PHYSICS IN YOUR HIGH SCHOOL: A Handbook for the Improvement of Physics Courses—American Institute of Physics—*McGraw*, 136 p., paper, \$1.50. Directed primarily to school board members.

PLANT GROWTH SUBSTANCES—L. J. Audus—*Interscience*, 2nd ed., 553 p., illus., \$10. Revised and expanded to include the more important advances. Lists sensitivities of weed, crop and plants to treatment with hormone herbicides. 63-page bibliography included.

THE POISONS IN YOUR FOOD—William Longgood—*Simon & Schuster*, 277 p., \$3.95. Journalist presents case of the possible dangers to our health from the ever increasing use of food additives.

PRINCIPLES OF COMPARATIVE PSYCHOLOGY—Rolland H. Waters, D. A. Rethlingshafer and Willard E. Caldwell, Eds.—*McGraw*, 453 p., illus., \$7.95. Presents data and interpretations of original research in field of animal study.

PRINCIPLES OF PALEOBOTANY—William C. Darrah—*Ronald*, 2nd ed., 295 p., illus., \$6.50. Introductory survey of the field of paleobotany for the nonspecialist, brought up to date.

RECOMMENDED PROCEDURES FOR THE IDENTIFICATION OF SELECTED PATHOGENIC MICROORGANISMS—Joshua M. Leise and others—*U. S. Army Chemical Corps (OTS)*, 2nd ed., 105 p., paper, \$2.50. Bacteria, fungi, and antibiotic susceptibility determinations.

THE RELUCTANT SUBGEON: A Biography of John Hunter—John Kobler—*Doubleday*, 359 p., \$4.95. The life and times of the 18th century London scientist who revolutionized surgery.

SCIENCE AND LIBERAL EDUCATION—Bentley Glass—*La. State Univ. Press*, 115 p., \$3. Essays on the relationship of scientific progress to the development of power and human goals.

SEAMANSHIP SIMPLIFIED—Elbert Robberson—*Ziff-Davis*, 246 p., illus., \$4.95. Step-by-step description of all phases of boating.

SECRETS OF THE CUNA EARTH MOTHER: A Comparative Study of Ancient Religions—Clyde E. Keeler—*Exposition*, 352 p., illus., \$6. Detailed study of the rituals of the Cuna Indian tribe on the isthmus of Panama.

THE SENSE OF SMELL—Roy Bedichek—*Doubleday*, 264 p., \$3.95. Naturalist talks about the human nose and the olfactory sense in mammals, insects and birds.

SPACE WORLD, Vol. I, No. 1—Otto O. Binder, Ed.—*Spaceways*, 66 p., illus., paper, 50¢; bi-monthly, \$2.75 annually. News magazine devoted to comprehensive and critical coverage of developments in space science.

THE STORY OF A TLINGIT COMMUNITY: A Problem in the Relationship between Archeological, Ethnological, and Historical Methods—Frederica de Laguna—*Smithsonian Inst. (GPO)*, 254 p., illus., \$2.

SUCCESSFUL ROSE GROWING—A. Norman, foreword by A. G. L. Hellyer—*Collingridge (Transatlantic)*, 2nd ed., 183 p., photographs, \$4.50. Written by British authority on roses.

THE THEORY OF OPTIMUM NOISE IMMUNITY—V. A. Kotelnikov, transl. from Russian by R. A. Silverman—*McGraw*, 140 p., \$7.50. Analyzes the effects of additive gaussian noise on communication systems, and suggests how to minimize them.

THERMOCHEMISTRY FOR STEELMAKING, Vol. I—John F. Elliott and Molly Gleiser—*Addison-Wesley*, 296 p., \$10.50. Information on pertinent chemical properties and some physical properties of elements and compounds.

THERMODYNAMIC PRINCIPLES FOR CHEMICAL ENGINEERS—Roger Gilmore—*Prentice-Hall*, 339 p., illus., \$11. Exposition of thermodynamic fundamentals as applied to chemical systems.

THERMODYNAMICS: An Introduction to the Physical Theories of Equilibrium Thermostatics and Irreversible Thermodynamics—Herbert B. Callen—*Wiley*, 376 p., illus., \$8.75. Uses postulational approach.

UNDERSTANDING CHEMISTRY—Lawrence P. Lessing—*Interscience*, 192 p., illus., \$3.50. Summary of chemistry's basic laws and their application in everyday uses.

WHY SMASH ATOMS?—A. K. Solomon—*Penguin*, rev. ed., 173 p., photographs, illus. by K. C. Barieau, 95¢. Represents the atmosphere of experimental nuclear physics in 1940.

Science News Letter, March 5, 1960

Mathematical Macaroni*

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