

Books of the Week

For the editorial information of our readers, books received for review since last week's issue 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. Request free publications direct from publisher, not from Science Service.

ADVENTURES IN SCIENCE—Willard J. Jacobson, Robert N. King and Louise E. Killie—*Am. Bk.*, 387 p., illus., \$3.56. Seventh grade science text.

THE ALIVE AND GROWING TEACHER—Clark E. Moustakas—*Philosophical Lib.*, 157 p., \$3. Based on the experiences of a group of classroom teachers and principals.

BASIC GEOLOGY FOR SCIENCE AND ENGINEERING—E. C. Dapple—*Wiley*, 609 p., illus., \$9.50. Text covering the fundamentals of geologic processes, sediment and rock types, streams, ground water and glaciation.

A BOOK OF SATELLITES FOR YOU—Franklyn M. Branley—*Crowell*, 42 p., illus. by Leonard Kessler, \$3. Picture book for very young readers.

THE CENTRAL NERVOUS SYSTEM AND BEHAVIOR—Mary A. B. Brazier, Ed.—*Macy*, 450 p., illus., \$5.25. Pictorial survey of Russian contributions to neurophysiology, followed by discussion of EEG and conditioned learning.

CONCEPTS OF BIOLOGY—R. W. Gerard and Russell B. Stevens, Eds., foreword by Paul A. Weiss — *Nat. Acad. of Sciences — Nat. Res. Council, Div. of Biology*, 124 p., paper, \$1.75. Conference report examining whether present-day biology is paying too little attention to its conceptual maturation and, if so, why.

DRINKING AND INTOXICATION: Selected Readings in Social Attitudes and Controls—Raymond G. McCarthy—*Yale Center of Alcohol Studies (Free Press)*, 455 p., illus., \$7.50. Comprehensive survey of attitudes toward drinking among different peoples at different periods.

DYNAMIC RESPONSE OF HUMAN OPERATORS—Duane T. McRuer and Ezra S. Krendel—*Wright Air Dev. Center (Office of Technical Services)*, 248 p., paper, \$4. Results of a concerted effort to arrive at a suitable mathematical description of pilot response.

DYNAMICS OF PROLIFERATING TISSUES—Dorothy Price, Ed.—*Univ. of Chicago Press*, 96 p., illus., \$3.25. Conference discussions of the variables involved in proliferation and differentiation, requirements, rates and ratios, and the different methods for studying tissue growth and function.

ELASTICITY, PLASTICITY AND STRUCTURE OF MATTER—R. Houwink, chapter on plasticity of crystals by W. G. Burgers—*Dover*, 2nd ed., 368 p., illus., paper, \$2.45. Reprint of 1952 edition.

FALLOUT AND DISARMAMENT: A Debate—Linus Pauling vs. Edward Teller, introd. by James Day—*KQED-TV (Fearon Publishers)*, 13 p., illus., paper, 50¢.

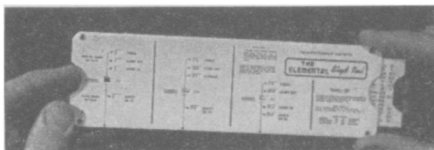
FISHES OF THE GREAT LAKES REGION—Carl L. Hubbs and Karl F. Lagler—*Cranbrook Inst. of Science*, rev. ed., 213 p., illus., \$5. Much new information has been added to this thorough study, first published in 1941.

FORTY-THIRD ANNUAL REPORT OF THE NATIONAL ADVISORY COMMITTEE FOR AERONAUTICS 1957: Administrative Report including Technical Reports—Hugh L. Dryden, Dir.—*Govt. Printing Office*, 1650 p., illus., \$10.25.

FUNDAMENTALS OF ADVANCED MISSILES—Richard B. Dow—*Wiley*, 567 p., \$11.75. Comprehensive summary of the fundamentals involved in the propulsion, aerodynamics, guidance and control of missiles and space vehicles.

GEM HUNTER'S GUIDE—Russell P. MacFall—*Science and Mechanics Pub. Co.*, 2nd rev. ed., 188 p., illus., \$3.95. Handbook listing gem mineral locations with maps.

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HAZARD SUMMARY REPORT ON THE ARGONNE LOW POWER REACTOR (ALPR)—Abraham Smardyk, Ed.—*Argonne Nat. Lab. (Office of Technical Services)*, 108 p., illus., paper, \$2.50. Report of the reactor engineering division operated by the University of Chicago.

HOW TO GET INTO COLLEGE—Frank H. Bowles—*Dutton*, 157 p., \$2.95. 358 questions answered by the president of the College Entrance Examination Board.

INTRODUCTION TO THE THEORY OF SOUND TRANSMISSION: With Application to the Ocean—C. B. Officer—*McGraw*, 284 p., \$10. Discusses fundamental relations and general theory of transmission of sound in shallow and deep water, reflectivity and attenuation.

LABORATORY DISTILLATION PRACTICE—E. A. Coulson and E. F. G. Herington—*Interscience*, 166 p., illus., \$4.50. Presents graphically the essential physico-chemical principles and describes construction and operation of equipment.

THE NEW FORCE OF ATOMIC ENERGY: Its Development and Use—*Savannah River Operation Office, AEC*, 68 p., illus., paper, single copies free upon request direct to publisher, P.O. Box A, Aiken, S. C. Instructive booklet.

THE POTENTIAL THEORY OF UNSTEADY SUPERSONIC FLOW—John W. Miles—*Cambridge Univ. Press*, 220 p., \$8.50. Monograph surveying those aerodynamic forces that result from unsteady motion of the structural components of high-speed aircraft.

RESEARCH IN SPACE SCIENCE: Special Report No. 19—Luigi G. Jacchia and others—*Smithsonian Astrophysical Observatory*, 20 p., paper, single copies free upon request direct to Observatory, Cambridge 38, Mass. Reports on the earth's gravitational potential, on a satellite meteor trap and flashing satellite for geodetic studies.

RIVER BASIN SURVEYS PAPERS: Numbers 9-14—Frank H. H. Roberts, Jr., Ed.—*Smithsonian Inst. (Govt. Printing Office)*, 392 p., illus., maps, \$3.25. Based on results of field investigations carried on as a part of the Inter-Agency Archeological Salvage Program.

RUSSIAN-ENGLISH DICTIONARY—A. I. Smirnitky, Dir., O. S. Akhmanova, Ed.—*Dutton*, 3rd rev. ed., 951 p., \$9.75. Contains 50,000 basic Russian words in modern orthography and many technical terms.

A SOURCE BOOK IN GREEK SCIENCE—Morris R. Cohn and I. E. Drabkin—*Harvard Univ. Press*, rev. ed., 581 p., illus., \$7.50. For scholars and students of the history of ancient science.

SOUTHEASTERN INDIANS LIFE PORTRAITS: A Catalogue of Pictures 1564-1860—Emma Lila Fundaburk, Ed.—*Emma Lila Fundaburk Pub.*, 136 p., 354 illus., \$7.50. Ethnological record of clothing and customs of the Indians, showing gradually increasing European influence.

THE STORY OF AVIATION—David C. Cooke—*Archer House (Herman & Stephens)*, 264 p., illus., \$4.95. From ancient dream to supersonic jets.

THE STRUCTURE AND PROPERTIES OF POROUS MATERIALS—D. H. Everett and F. S. Stone, Eds.

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—*Academic*, 389 p., illus., \$12. Proceedings of the Tenth Symposium of the Colston Research Society held at the University of Bristol in 1958.

TECHNIQUES OF POPULATION ANALYSIS—George W. Barclay—Wiley, 311 p., \$4.75. Introduction to research procedures and their purposes, with special attention given to international comparisons.

Science News Letter, February 21, 1959

Questions

ASTRONOMY—How thick is the glass disk that will form the mirror for the new telescope being molded for the National Observatory? p. 117.

BIOLOGY—What hormone has recently been found in man? p. 121.

SURGERY—Where was the first known brain operation by a proton beam performed? p. 121

Photographs: Cover, Corning Glass Works; p. 119, Harvard University; p. 128, United States Rubber Company.

Do You Know

The current *starfish* population on the oyster grounds in Long Island Sound is as high as 14 per square yard, or about three every two square feet.

The crew of the atomic submarine, *Nautilus*, receives less *radiation* dosage at sea than the average American does in the course of daily life.

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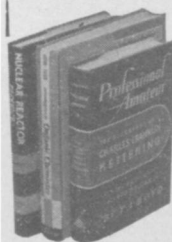
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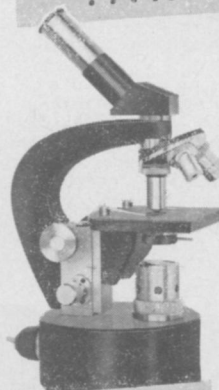
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