

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.

THE ALGEBRAIC THEORY OF SPINORS—Claude C. Chevalley—*Columbia University Press*, 128 p., \$3.75. This book is oriented towards the algebraic and geometric applications of the theory of spinors, and contains a unified treatment of the spinor theory.

ANTIBIOTICS: Fourteenth Annual Biology Colloquium, Saturday, April 18, 1953—Wayne W. Umbreit, Leader—*Oregon State Chapter of Phi Kappa Phi and Oregon State College*, 39 p., illus., paper, 75 cents. An informal exchange of views on a timely topic.

BASIC ODOR RESEARCH CORRELATION—Albert R. Behnke and others—*New York Academy of Sciences*, Annals, Vol. 58, Art. 2, 175 p., illus., paper, \$3.50. Presenting the problems of odors in industries; odor research from the point of view of the scientist, and the status of present knowledge of the olfactory process; and reporting current experimental studies in odor.

BRANCHED MOLECULES—F. R. Eirich and others—*New York Academy of Sciences*, Annals, Vol. 57, Art. 4, 135 p., illus., paper, \$3.50. Dealing with the class of non-linear polymerizations that may lead to infinite network structures.

CAROTENOIDS: Their Comparative Biochemistry—T. W. Goodwin—*Chemical Publishing*

Company, 356 p., illus., \$7.00. The aim of this book, according to the author, is to discuss the distribution, biogenesis and function of the carotenoids throughout the plant and animal kingdoms in such a way that it will be of value to those interested in the biological aspects of these pigments.

CHRONIC ILLNESS: Digests of Selected References, 1950-1952—Violet B. Turner, Consultant—*Gov't Printing Office*, Public Health Service Publication No. 305, 262 p., paper, \$1.00. A supplement to Public Health Service Publication No. 10.

THE CULTIVATION OF ANIMAL AND PLANT CELLS—Philip R. White—*Ronald*, 239 p., illus., \$6.00. Presenting the major techniques of both plant and animal cell culture for professional workers in the field, and also for one who has no previous experience beyond that of a good biology course. Dr. White has succeeded in keeping a tomato root living and growing for 21 years.

ENGINEERS' DREAMS—Willy Ley—*Viking*, 239 p., illus., \$3.50. Engineers' dreams, according to the noted author, are things that can be done as far as the engineering is concerned, but the majority may remain dreams because of political difficulties. This book tells of some of these planned projects, such as a tunnel beneath the English Channel.

ESSAYS IN EXPERIMENTAL LOGIC—John Dewey—*Dover*, 444 p., cloth \$3.50, paper \$1.75. A student edition.

THE FORT MONMOUTH SECURITY INVESTIGATIONS, AUGUST 1953-APRIL 1954—Scientists' Committee on Loyalty and Security—*Federation of American Scientists*, 66 p., paper, 50 cents. Report of the recent security investigation at Fort Monmouth. The report is sponsored by the Federation of American Scientists, a nation-wide organization representing all fields of science and engineering, and concerned with the impact of scientific developments on the national and international scene.

FOUNDATIONS OF POTENTIAL THEORY—Oliver Dimon Kellogg—*Dover*, 384 p., cloth \$3.95, paper \$1.90. A popular priced edition of this mathematics book, first published in 1929.

HOW TO JUDGE A SCHOOL: Handbook for Puzzled Parents and Tired Taxpayers—William F. Russell—*Harper*, 143 p., \$2.50. Suggesting some of the things that a thoughtful parent or taxpayer should consider about the schools of his state and community.

AN INTERNATIONAL BIBLIOGRAPHY ON ATOMIC ENERGY: Volume 1, Political, Economic and Social Aspects—*Atomic Energy Section, Department of Political and Security Council Affairs (Columbia University Press)*, Supplement No. 2, 31 p., paper, 30 cents. Continuing the presentation of a selective bibliography of atomic energy reflecting individual views and public discussion, and covering the period from July, 1950, to December, 1952.

AN INTERNATIONAL BIBLIOGRAPHY ON ATOMIC ENERGY: Volume 2, Scientific Aspects—*Atomic Energy Section, Department of Security Council Affairs (Columbia University Press)*, Supplement No. 2, 320 p., paper, \$3.50. Listing approximately 8,000 articles, books and pamphlets published in all parts of the world in 1951 and 1952 dealing with scientific aspects of atomic energy.

INTRODUCTION TO COLLEGE PHYSICS—Rogers D. Rusk—*Appleton-Century-Crofts*, 816 p., illus., \$6.50. A textbook for the first year college student with the average high school background in mathematics.

MATHEMATICAL DEDUCTIONS FROM EMPIRICAL RELATIONS BETWEEN METABOLISM, SURFACE AREA, AND WEIGHT—Hermann von Schelling—*New York Academy of Sciences*, Annals, Vol. 56, Art. 7, 22 p., paper, \$1.00. Representing the relationship of surface area to weight in men and boys by utilizing a simple geometrical model.

MATTER, ENERGY, MECHANICS—Jakob Mandelker—*Philosophical Library*, 73 p., \$3.75. Presenting "an expanded and completed relativity mechanics by virtue of the introduction of a new kinetic energy formula."

MEDICAL SERVICE AREAS AND DISTANCES TRAVELED FOR PHYSICIAN CARE IN WESTERN PENNSYLVANIA: Part I, Medical Service Areas as Indicated by Intercountry Movement of Patients, Part II, Distances Traveled for Physician Care in Western Pennsylvania—Antonio Cirocco and Isidore Altman—*Gov't Printing Office*, Public Health Service Publication No. 248, 32 p., illus., paper, 25 cents.

MODERN CHEMICAL PROCESSES: A Series of Articles Describing Chemical Manufacturing Plants, Volume III—Editors of Industrial and Engineering Chemistry in conjunction with the technical staffs of the cooperating organizations—*Reinhold*, 276 p., illus., \$5.00. Representing the most modern and up-to-date operations in production of various chemicals and related materials.

NAME REACTIONS IN ORGANIC CHEMISTRY—Alexander R. Suttie—*Academic Press*, 192 p., \$4.00. In organic chemistry, there is a custom of designating many reactions by the names of the chemists who discovered or developed them; these "name reactions" constitute a considerable portion of the tools available to the organic chemist.

NEUROTOXOID INTERFERENCE WITH TWO HUMAN STRAINS OF POLIOMYELITIS IN RHESUS MONKEYS—Murray Sanders, Manuel G. Soret, and Benjamin A. Akin—*New York Academy of Sciences*, Annals, Vol. 58, Art. 1, 12 p., paper, 50 cents. Reporting the results of an investigation into the interfering effect of neurotoxoids in poliomyelitis.

PARENTAL AGE AND CHARACTERISTICS OF THE OFFSPRING—Leonell C. Strong and others—*New York Academy of Sciences*, Annals, Vol. 57, Art. 5, 150 p., illus., paper, \$3.50. Considering the effect of parental age from the chemical, physiological and genetic viewpoint.

THE PRINCIPLES OF PHYSICAL OPTICS: An Historical and Philosophical Treatment—Ernst Mach, translated by John S. Anderson and A. F. A. Young—*Dover*, 324 p., illus., cloth \$3.50, paper \$1.75. A republication of the English translation, first published in 1926.

THE SCIENCE BOOK OF WONDER DRUGS—Donald G. Cooley—*Franklin Watts*, 247 p., illus., \$2.95. Ninety per cent of prescriptions filled today, according to the author, contain one or more of the wonder drugs. Previously reviewed in paper edition. (See SNL, April 3, p. 220.)

SNOW CRYSTALS: Natural and Artificial—Ukichi Nakaya—*Harvard University Press*, 510 p., illus., \$10.00. The author and his colleagues made extensive observations of natural snow, classified snow crystals and investigated each type of crystal. A method of producing, in the laboratory, artificial snow of each type was discovered.

Science News Letter, May 8, 1954



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