

Books of the Week

TO SERVE YOU: To get books, send us a check or money order to cover retail price. Address Book Dept., SCIENCE NEWS LETTER, 1719 N St., N. W., Washington 6, D. C. Ask for free publication direct from issuing organization.

ATMOSPHERIC EXPOSURE TESTS OF NAILED SHEET METAL BUILDING MATERIALS—Theodore H. Orem—*Govt. Printing Office*, National Bureau of Standards Building Materials and Structures Report 128, 24 p., illus., paper, 20 cents. When properly installed, this kind of material gives long and satisfactory service. Only aluminum nails should be used on aluminum and contact with certain kinds of wood should be avoided.

BOTANY OF SUGARCANE—C. Van Dillewijn—*Chronica Botanica*, 371 p., illus., \$6.00. An inventory of present knowledge of the botany of sugarcane gleaned from various parts of the world. Arrangement of the book has been planned to facilitate quick reference.

COLD INJURY: Transactions of the First Conference, June 4-5, 1951, New York, N. Y. — M. Irene Ferrer, Ed. — *Josiah Macy, Jr. Foundation*, 248 p., illus., \$3.25. At this conference, people from divergent organizations and occupations, but with a common interest in the effects of cold on living organisms, compare notes and share conclusions.

CONTRIBUTIONS TO THE FOUNDING OF THE THEORY OF TRANSFINITE NUMBERS—Georg Cantor, translated by Philip E. B. Jourdain—*Dover*, 211 p., illus., paper, \$1.25. Making available to the American public two papers originally appearing in the "Mathematische Annalen" for 1895 and 1897.

CULTURAL SCIENCES: Their Origin and Development—Florian Znaniecki—*University of Illinois Press*, 438 p., \$6.00. Preparatory to writing a book on the future of sociology with an anticipation of new problems, the author found it necessary to review the past. In this volume, the origin is traced back to the period preceding the growth of Greek theoretic thought.

DISCOVERING PHYSICS—Harold P. Knauss—*Addison Wesley*, 446 p., illus., \$6.00. For students who do not intend to become physicists—to teach them how to understand their surroundings better, to feel more at home in the modern world.

DISEASE IN PLANTS: An Introduction to Agricultural Phytopathology—Neil E. Stevens and Russell B. Stevens—*Chronica Botanica*, 219 p., illus., \$4.75. Presenting a core or common denominator of knowledge in this field which

would find application in various states and various countries regardless of their diversity of crops.

ENERGY IN THE SERVICE OF MAN—J. Bronowski—*Bureau of Current Affairs* in association with UNESCO, 15 p., illus., paper, free upon request to UNESCO Relations Staff, U. S. Department of State, Washington 25, D. C. A popular summary of a series of papers prepared on this subject as the UNESCO discussion theme for 1951. Charts show dramatically the great need for power in many parts of the world. The energy put into a laboratory and education, is the conclusion, earns a bigger profit than that put into a dam.

FIRST PROGRESS REPORT OF THE SCHOOL FACILITIES SURVEY—School Housing Section, Office of Education—*Govt. Printing Office*, 77 p., illus., paper, 40 cents. The need for school-house construction is without precedent, it is pointed out. Six out of every ten classrooms are overcrowded. One out of every three pupils goes to school in a fire trap.

THE GEOGRAPHY OF EUROPE—George D. Hubbard—*Appleton*, 2d ed., 870 p., illus., \$6.75. The geography of Europe has undergone considerable revision in recent years. This readable book will give the general reader a pleasant way to bring his ideas up to date. It emphasizes the relation of man and his activities to the physical conditions surrounding him.

GUIDE TO REFERENCE BOOKS—Constance M. Winchell—*American Library Association*, 7th ed., 645 p., \$10.00. Entries are arranged by subject and under that by type of book. A most helpful book for the library shelf.

HEAT-TREATING ALUMINUM IN THE BRACE SHOP—John L. Young—*Mellon Institute*, 6 p., illus., paper, free upon request to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa.

HOW TO IMPROVE ENGINEERING-MANAGEMENT COMMUNICATIONS—*National Society of Professional Engineers*, Executive Research Survey Number One, 46 p., illus., paper, \$2.00. Initiated to help alleviate the current shortage of engineers by assisting industry in securing the best utilization of its present engineering force.

HYGIENE, INFECTIOUS DISEASES AND DIETETICS—Dennis H. Geffen and Susan Tracy—*Longmans, Green*, 276 p., illus., \$1.85. A book prepared in England for the instruction of student nurses. Americans will be surprised to learn that "the open fire is still the common and favorite method of heating in the English home," and that the temperature of bedrooms and halls should be kept at 50-55 degrees F. in the day and should not fall below 45 degrees F. even at night.

MOTION PICTURES ON CHILD LIFE: A List of 16mm. films—Inez D. Lohr—*Govt. Printing Office*, 61 p., paper, 40 cents. Each film is briefly described but no attempt has been made to evaluate them.

ON ATMOSPHERIC POLLUTION: A Group of Contributions—J. H. Carter and others—*American Meteorological Society*, Meteorological

Monographs, Vol. I, No. 4, 55 p., illus., paper, \$4.50. Technical studies of the effects of weather and climate on air pollution and other aspects of the problem.

A PHILOSOPHICAL ESSAY ON PROBABILITIES—Pierre Simon Marquis de Laplace, Translated from the 6th French Edition by Frederic Wilson Truscott and Frederick Lincoln Emory—*Dover*, 196 p., paper, \$1.25. In this essay Laplace tried to give the general reader an understanding of the fundamentals of probability and its applications.

PLAY, DREAMS AND IMITATION IN CHILDHOOD—Jean Piaget, Translated by C. Gattegno and F. M. Hodgson—*Norton*, 296 p., \$5.00. This book by a Swiss psychologist is here made available to American readers. It presents observations of young children that trace the beginnings of imitation, play and symbolic thought.

THE RISE OF THE NEW PHYSICS: Its Mathematical and Physical Theories—A. D'Abro—*Dover*, 982 p., 2 vols., illus., \$8.00. Republication of a book which originally carried the title, "Decline of Mechanism." Concerned especially with the quantum theory and researches in the subatomic world.

SMITHSONIAN LOGARITHMIC TABLES: To Base e and Base 10—George Wellington Spenceley, Rhea Murray Spenceley and Eugene Rhodes Epperson—*Smithsonian*, 402 p., \$4.50. Devoted exclusively to the factorizing method.

SYMPOSIUM ON STRUCTURAL SANDWICH CONSTRUCTION—A. G. H. Dietz, Chairman—*American Society for Testing Materials*, 120 p., illus., paper, \$2.00. Of interest to designers or builders of aircraft, large buildings, houses and other constructions.

TEACHER SUPPLY AND DEMAND IN THE UNITED STATES: Report of the 1952 National Teacher Supply and Demand Study—Ray C. Maul—*National Education Association*, 40 p., paper, \$1.00. In 1952, some 32,443 graduates will be available to meet a demand for at least 160,000 qualified elementary school teachers.

THE UTILIZATION OF SUGAR CANE BAGASSE FOR PAPER, BOARD, PLASTICS, AND CHEMICALS: An Annotated Bibliography—Clarence J. West—*Sugar Research Foundation*, 2d ed., 202 p., paper, free upon request to publisher, 52 Wall Street, New York 5, N. Y. Bagasse offers one of the great untapped sources of collected raw material from which paper pulp can be made.

THEY WENT TO COLLEGE: The College Graduate in America Today—Ernest Havemann and Patricia Salter West—*Harcourt, Brace*, 277 p., illus., \$4.00. Analysis of answers to a questionnaire circulated among the readers of a popular news magazine, about 77% of whom are college trained. Data were collected in 1947.

ZOOLOGY—Alfred M. Elliott—*Appleton*, 719 p., illus., \$6.00. An attempt is made to give what amounts to a historical narration of animal life. For students of general courses and embryo zoologists.

Science News Letter, April 19, 1952

Latest advance in wide temperature range greases under development is a copper phthalocyanine lubricant with use range now good from minus 80 to plus 400 degrees Fahrenheit.

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