

Books of the Week

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ALKYLATION OF ALKANES, VOLUME I: PATENTS ON ALKYLATION OF ALKANES—Gustav Egloff and George Hulla—*Reinhold*, 1138 p., \$20.00. The principles involved have broad implications that can be applied to amines, alcohols, aromatic hydrocarbons, and many other organic compounds.

CATHODE RAY TUBE DISPLAYS—Theodore Soller, Merle A. Starr, and George E. Valley, Jr.—*McGraw-Hill*, 746 p., illus., \$10.00. In three and a half years after January, 1942, nearly 3,000,000 tubes were made. This book is intended to aid in their peacetime use.

CHECKLIST OF PLANTS OF GRAND CANYON NATIONAL PARK—W. B. McDougall—*Grand Canyon Natural History Assn.*, 3d ed., 126 p., illus., paper, 50 cents. Including 40 species not known to occur in Arizona outside the park and seven not known from any other part of the world.

CHICAGO NATURAL HISTORY MUSEUM, REPORT OF THE DIRECTOR TO THE BOARD OF TRUSTEES FOR THE YEAR 1947—*Chicago Natural History Museum*, 144 p., illus., paper, \$1.00. Includes reports of research and a list of members.

ESKIMO DOCTOR—Aage Gilberg—*Norton*, 229 p., illus., \$3.00. The story, in diary form, of a Danish physician whose practice was among the Eskimos of Thule, Greenland. Illustrated by the author's own photographs and translated by Karin Elliott.

ESSENTIALS OF PHYSICS—Carl F. Eyring—*Prentice-Hall*, 422 p., illus., \$5.00. An elementary college text especially for non-science students. Formerly entitled, "Survey Course in Physics."

FOURTH SEMI-ANNUAL REPORT—United States Atomic Energy Commission—*Govt. Printing Office*, 192 p., paper, 35 cents. Including the production, distribution, and utilization of isotopes, atomic power, and sources of the raw material, uranium. (See *SNL*, Aug. 7 and 14.)

HANDBOOK OF SOUTH AMERICAN INDIANS, VOLUME 4, THE CIRCUM-CARIBBEAN TRIBES—Julian H. Steward, Ed.—*Govt. Printing Office*, 609 p., illus., \$3.50. About tribes that are the least known of all those covered in the handbook; the great majority have long been extinct culturally, if not racially.

THE INDUSTRIAL ENVIRONMENT AND ITS CONTROL—J. M. Dallavalle—*Pitman*, 225 p., \$4.50. For those concerned with conditions affecting the health and welfare of workers.

THE LEAFHOPPERS, OR CICADELLIDAE, OF ILLINOIS (EURYMELINAE-BALCLUTHINAE)—D. M. Delong—*State of Illinois Department of Registration and Education*, 376 p., illus., \$1.50.

MARINES AT MIDWAY—Lt. Col. Robert D. Heinl, Jr.—*Govt. Printing Office*, 56 p., illus., paper, 50 cents. An official account of an epic in Marine Corps history.

MATHEMATICS, OUR GREAT HERITAGE: Essays on the Nature and Cultural Significance of Mathematics—William L. Schaaf, Ed.—*Harper*, 291 p., \$3.50. Not a mathematical work, but a book about mathematics in-

tended to remedy the situation that although "mathematical physics embodies the highest intellectual achievements of man, most of it, unfortunately, is inaccessible to the cultured layman."

OUR SURROUNDINGS: A Complete General Science—George W. Fowler, Morton C. Collier and Ernest L. Thurston—*Iroquois Publishing Company*, rev. ed., 757 p., illus., \$2.96. Includes atomic energy, television, DDT. A high school text.

PRINCIPLES AND PRACTICE OF THE RORSCHACH PERSONALITY TEST—W. Mons—*Lippincott*, 164 p., \$4.00. The author, who is British, brings together into one convenient handbook information from many sources on the use and interpretation of this important personality test.

THE PRONGHORN ANTELOPE AND ITS MANAGEMENT—Arthur S. Einarsen—*Wildlife Management Institute*, 238 p., illus., \$4.00. Information about a beautiful animal that can travel 50 to 60 miles an hour; an animal that has recently been salvaged from extinction.

SCIENCE, SERVANT OF MAN: A Layman's Primer for the Age of Science—I. Bernard Cohen—*Little, Brown*, 362 p., illus., \$4.00. Written at the request of the National Science Fund of the National Academy of Sciences to answer the questions: "What is the good of it? How are discoveries made? What spirit moves the scientist?" Interesting facts and background in a wide variety of fields.

STRENGTH OF HOUSES: Application of Engineering Principles to Structural Design—Herbert L. Whittemore and others—*Govt. Printing Office*, 135 p., illus., \$1.50. Data which will enable the engineer to avoid the use of superfluous material as well as to make houses more beautiful by making windows larger and bringing more of the outdoors inside. (See *SNL*, June 26.)

STUDIES OF UPPER-AIR CONDITIONS IN LOW LATITUDES—Herbert Riehl—*University of Chicago Press*, 103 p., illus., paper, \$2.00. In two parts, one on the formation of West Atlantic hurricanes and the other on relations between high- and low-latitude circulations.

SURVEY OF FOOD AND NUTRITION RESEARCH IN THE UNITED STATES, 1947—*National Research Council*, 306 p., paper, \$1.00. A compilation of active research projects classified by subject, list of organizations conducting research, personnel list, and index.

A TEXTBOOK OF HEAT: For Upperclassmen—LeRoy D. Weld—*Macmillan*, 436 p., illus., \$5.00. For students already familiar with differential and integral calculus.

Science News Letter, August 21, 1948

ARCHAEOLOGY

Ruins of Danish Castle Produce Immense Key

➤ EXCAVATION of a knight's castle near Gylling, Denmark, which was besieged and gutted with fire more than 600 years ago

brought to light an immense key to the main gate, a hammer of unique design, and a pair of well-preserved iron handcuffs.

A number of broken bronze dishes and pans have been revealed, as well as many silver coins. The place is literally covered with heavy crossbow bolts.

The excavation is expected to furnish much new information about life behind the fortified walls of a knight's castle in the late Middle Ages.

The site is known as Kjaersgaard Volsted. It was originally surrounded on three sides by a lake, while a moat protected it against attack from land.

The owner of Kjaersgaard was a fourteenth century German knight who gained control of the castle through marriage. He refused to help the Danes with their war of liberation and gave refuge to defeated Germans.

The great numbers of missiles now being recovered give an idea of the length of time he withstood attack before his fortification came down in flames. Perhaps the war or maybe the Black Death prevented the ruins from being stripped of much precious metal before it became a forgotten, overgrown heap in the lake.

Science News Letter, August 21, 1948

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