

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 publications direct from issuing organizations.

AN ANCIENT SITE AT BORAX LAKE, CALIFORNIA—Mark Raymond Harrington—*Southwest Museum*, 131 p., illus., paper, \$3.00. The study of a campsite some 10,000 years old.

BACKGROUND MATERIAL ON ACTIVITY IN FIRST YEAR OF DISTRIBUTION OF PILE PRODUCED RADIO-ISOTOPES — U. S. Atomic Energy Commission — *Gov't Printing Office*, 24 p., paper, 10 cents.

BRIEF PSYCHOTHERAPY—Bertrand S. Frohman with collaboration of Evelyn P. Frohman—*Lea and Febiger*, 265 p., \$4.00. To aid physicians in detecting the psychological factors that may underlie physical disorders.

THE CHALLENGE OF PARENTHOOD—Rudolf Dreikurs—*Duell, Sloan & Pearce*, 334 p., \$3.50. A book for "problem parents" intended to aid in preventing dictatorship in the home and the occurrence of those damaging childhood experiences that are at the roots of adult personality difficulties.

CHEMISTRY IN ACTION—George M. Rawlins and Alden H. Struble—*Heath*, 568 p., illus., \$3.00. An attractive text for high school.

DISABILITY EVALUATION: Principles of Treatment of Compensable Injuries—Earl D. McBride—*Lippincott*, 4th ed., 667 p., illus., \$12.00. For physicians concerned with reporting on disabilities and estimating extent of recovery. A chapter on "Employment of the Physically Disabled" is added to this edition.

ELEMENTS OF RADIO—Abraham Marcus and William Marcus—*Prentice-Hall*, 2d ed., 751 p., illus., \$4.00. Intended for use as a handbook or home study course for beginners.

FUNDAMENTAL ELECTRONICS AND VACUUM TUBES — Arthur Lemuel Albert — *Macmillan*, rev. ed., 510 p., illus., \$6.00. A college text.

THE GROWTH OF PHYSICAL SCIENCE—James Jeans—*Macmillan*, 364 p., illus., \$4.00. A book for the layman who has interests in this important field, and also for students of physics. The author corrected the proofs shortly before his death.

HANDBOOK OF CHEMISTRY AND PHYSICS: A Ready-Reference Book of Chemical and Physical Data—Charles D. Hodgman, Ed.—*Chemical Rubber Publishing Co.*, 30th ed., 2686 p., \$6.00. A revised and enlarged edition of a familiar reference book.

HYPNOTISM COMES OF AGE: Its Progress From Mesmer to Psychoanalysis—Bernard Wolfe and Raymond Rosenthal—*Bobbs-Merrill*, 272 p., \$3.00. An editor of *Mechanix Illustrated* and a former soldier with experience as a patient in Army hospitals write popularly of this technique in medicine.

IN HENRY'S BACKYARD: The Races of Mankind—Ruth Benedict and Gene Weltfish—*Schuman*, illus., \$2.00. A little book of amusing pictures setting forth a serious story exploding many of the fallacies concerning the differences between races. It is based on the much-discussed pamphlet "Races of Mankind."

THE INTEGRATIVE ACTION OF THE NERVOUS SYSTEM—Charles Sherrington—*Yale University Press*, 433 p., illus., \$6.00. A new and revised edition of a well-known book first published in 1906.

KNOW YOUR HEART—Howard Blakeslee—*Public Affairs Committee*, 31 p., illus., paper, 20 cents. Prepared by a science writer with the cooperation of the American Heart Association.

LAYOUT—Charles J. Felten—*Felten*, 132 p., illus., \$5.00. A beautiful book illustrated with photographs and drawings for artists, advertisers, and printers.

LECTURE SERIES IN NUCLEAR PHYSICS—E. M. McMillan and others—*Govt. Printing Office*, 132 p., paper, 55 cents. Originally prepared for use of the Los Alamos scientists and later declassified.

MARINER OF THE NORTH: The Life of Captain Bob Bartlett—George Palmer Putnam—*Duell, Sloan and Pearce*, 246 p., \$3.50. The biography of an explorer written by a man who is himself an explorer.

MATHEMATICAL TABLES—Charles D. Hodgman—*Chemical Rubber Publishing Co.*, 8th ed., 366 p., Desk size \$1.75, Pocket size \$1.25. A convenient collection of reference material from the Handbook of Chemistry and Physics.

PAPERS OF THE MICHIGAN ACADEMY OF SCIENCE, ARTS AND LETTERS—Eugene S. McCartney and Henry Van Der Schalie, Eds.—*University of Michigan Press*, 325 p., illus., \$3.75.

PHARMACEUTICAL PREPARATIONS—George E. Crossen and Karl J. Goldner—*Lea and Febiger*, 2d ed., 250 p., \$4.00. Text for pharmacy students.

THE PRACTICAL HANDBOOK OF BETTER ENGLISH—Frank Colby—*Grosset & Dunlap*, 2d ed., 309 p., \$1.00. Interesting and helpful.

PRACTICAL MARINE ENGINEERING—Reno C. King, Jr.—*Prentice-Hall*, 470 p., illus., \$6.00. For the man who is going to operate a marine steam power plant.

PREHISTORIC CERAMIC STYLES OF LOWLAND SOUTH AMERICA. THEIR DISTRIBUTION AND HISTORY—George D. Howard—*Yale University Press*, 95 p., 15 pl., paper, \$1.50.

PREPARING FOR FEDERAL RADIO OPERATOR EXAMINATIONS—Arnold Shostak—*Prentice-Hall*, 404 p., \$3.75. In question and answer form.

PSYCHOLOGICAL ATLAS — David Katz — *Philosophical Library*, 142 p., illus., \$5.00. A collection of graphic material by a professor of the University of Stockholm intended for the young student but interesting to many others as well.

SIGMUND FREUD, AN INTRODUCTION: A Presentation of His Theory, and a Discussion of the Relationship Between Psychoanalysis and Sociology—Walter Hollitscher—*Oxford University Press*, 119 p., \$2.50.

TELEPATHY AND MEDICAL PSYCHOLOGY—Jan Ehrenwald—*Norton*, 212 p., \$3.00. A psychiatrist, formerly of Prague and Vienna, writes on a controversial subject. Many psychologists will probably disagree

with the views expressed.

TOWARD GENERAL EDUCATION—Earl F. McGrath and others—*Macmillan*, 224 p., \$3.00. The result of discussions, informal at first, on how education could be made to prepare young people to meet contemporary problems more effectively. The authors are members of the faculty of the University of Iowa.

TREATMENT BY DIET — Clifford J. Barboraka—*Lippincott*, 5th ed., 784 p., illus., \$10.00. A technical book for physicians and dietitians.

Science News Letter, February 28, 1948

ENGINEERING

X-Rays Measure Thickness Of Red-Hot Metal Strips

► THE same X-ray that makes pictures of the interior of the human body is now measuring the thickness of red-hot metal strips emerging from the rollers in giant steel mills, too hot to be measured otherwise.

The process, with equipment revealed by General Electric, is automatic and continuous, although the metal may be moving at speeds up to 2,000 feet per minute, and there is no physical contact with the red-hot steel. A beam of X-ray which passes constantly through the steel does the trick.

At the same time another beam passes through a standard reference sample of the desired thickness. The densities of both emerging rays are picked up in a radiation detector. If the densities of the two are the same, the steels are of equal thickness. If the densities are different, the hot steel is indicated as too thick or too thin.

In conventional methods, thickness is measured by hand-held calipers which can not be used until the metal is cool. If the thickness is found incorrect, re-rolling is necessary. With the new X-ray method, adjustments can be made immediately if proper thickness is not being obtained.

Science News Letter, February 28, 1948

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