

Books of the Week

ACRYLICS: And Other Dental Resins—Stanley D. Tylman and Floyd A. Peyton—*Lippincott*, 480 p., illus., diags., and tables, \$10. A book that appraises the use of acrylics in their newly established position in dental practice. It covers all the accepted uses of the synthetic resins in dentistry, and compares the use of the resins and baked porcelain, older denture-base materials and other restorative materials.

ACTIVITIES OF THE INTERDEPARTMENTAL COMMITTEE ON SCIENTIFIC AND CULTURAL COOPERATION—U. S. Gov't. *Printing Office*, 45 p., illus., tables, paper, 15 cents. Dept. of State Publ. 2622, Inter-American Series 31.

THE ANGRY PLANET—John K. Cross—*Coward-McCann*, 239 p., illus., \$2. A fictional account of the first flight by rocket ship to Mars and of the incredible events which took place in several adventure-packed days.

AUDUBON BIRD GUIDE: Eastern Land Birds—Richard H. Pough—*Doubleday*, 312 p., illus., \$3. Everyone who enjoys observing birds can identify quickly and with accuracy various species. This book describes the significant points of identification, voice, range, nesting and food habits, methods by which birds may be attracted, and many other items.

COMMUNICATION THROUGH THE AGES: From Sign Language to Television—Alfred Still—*Murray Hill Books*, 201 p., diags., \$2.75. Not a cut-and-dried historical account of the scientific background of communication, but a review of progress and of changing philosophies, particularly as related to scientific expansion.

DEATH VALLEY AND ITS COUNTRY—George P. Putnam—*Duell, Sloan and Pearce*, 231 p., \$2.75. Tales of the pioneers, of the prospectors and Indians and rangers, are set alongside detailed descriptions of the Valley's weather, its flowers, its wild life, its sights and sounds, and its geological past.

DIESEL OPERATION AND MAINTENANCE—Orville L. Adams, Sr.—*Prentice-Hall*, 366 p., illus., diags., graphs and tables, \$5.

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Clear and concise presentation of basic principles and procedures, including the methods and techniques of maintenance and repair.

DIRECTORY OF MICROFILM SERVICES—Compiled by Jurgen G. Raymond—*Special Libraries Association*, 52 p., paper, \$1.50. What libraries can supply copies of periodical articles in microfilm and photoprint, and at what price.

HEALTH INSTRUCTION YEARBOOK 1946—Compiled by Oliver E. Byrd—*Stanford Univ. Press*, 399 p., tables, \$3. A source book, covering a wide range including nutrition, fatigue and rest, mental health and disease, heredity and eugenics, and many other health subjects.

HUMAN RELATIONS IN RESEARCH INSTITUTION MANAGEMENT—William A. Hamor—*Mellon Institute*, 10 p., paper, free. A fruitful discussion of how to get the best out of people in the task of research, reprinted from *Advanced Management*.

INDUSTRIAL RESEARCH LABORATORIES OF UNITED STATES—Compiled by Callie Hall—*Nat. Research Council*, 415 p., \$5. Bulletin of the Nat. Research Council, No. 113, July 1946. The best current list.

MATHEMATICS OF FINANCE—John Northcott—*Rinehart*, 252 p., tables, \$3. A text and simple development for students of banking and finance.

PRINCIPLES OF TOOL ENGINEERING—Raymond Bloom—*McGraw-Hill*, 234 p., illus., diags., and tables, \$2.40. A simple, understandable beginning text covering systems of production, interchangeability and dimensioning as they pertain to tool design; the tool engineer's training, duties, and place in manufacturing; and the basic machine tools.

PROCEEDINGS OF THE PACIFIC SCIENCE CONFERENCE ON THE NATIONAL RESEARCH COUNCIL—*Nat'l Research Council*, 79 p., paper, 50 cents. Bulletin No. 114, Sept. 1946.

REPORT OF THE UNITED STATES EDUCATION MISSION TO JAPAN—U. S. Gov't *Printing Office*, 62 p., paper, 20 cents. Dept. of State Publ. 2579, Far Eastern Series 11.

UNDER THE RED SEA SUN—Commander Edward Ellsberg—*Dodd, Mead & Co.*, 500 p., \$3.50. How the author, with a handful of trained men, reclaimed the Red Sea naval base at Massawa—"the hottest spot on earth."

A WORKBOOK FOR STUDENTS OF BIOLOGY—Gruenberg, Snyder, and Miller, *Ginn and Co.*, 266 p., illus., diags., tables, paper, \$1.32. This workbook is intended to guide the student in planning experiments, in making records, in organizing observations of facts, in using tables and other devices that help in making comparisons, and arriving at more reasonable conclusions.

Science News Letter, November 23, 1946

Because nearly the same *sensations* are registered by an extremely hot object as by a very cold one, a blindfolded person is unable to tell whether his hand is being burned or frozen.

MEDICINE

Living Muscle Grafted On Dead Heart Muscle

► PATIENTS with some kinds of heart disease may in future have fresh, living muscle grafted onto their hearts to replace dead bits of muscle in their own hearts.

This possibility appears from studies reported by Drs. Mandel Weinstein and Benjamin G. Shafiroff of New York University College of Medicine.

Muscle strips from the abdomen and legs were successfully grafted on the heart muscles of dogs, they report in the journal, *Science* (Nov. 1).

Within two or three days after the operation, the dogs were up and about their kennels, except in some cases which became infected. They were exercised daily with no signs of heart trouble.

The idea of replacing dead parts of heart muscle with grafts of fresh muscle has been suggested before but the New York investigators are apparently the first to develop a practical method.

Science News Letter, November 23, 1946

CHEMISTRY

Sinews from Cattle To Sole Post-War Shoes

► SINEW FROM within the steer's body as well as leather from the outside can now be used for shoe soles. By a process developed originally at the University of Kentucky, the tendon of Achilles, which is the big sinew on the back of the hind leg, can be chemically digested and pressed into sheets of tough, flexible, sole-leather-like material. Full technical details are given in a new publication of the Office of Technical Services, U. S. Department of Commerce.

Science News Letter, November 23, 1946

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