

books OF THE WEEK

AN ATTEMPT TO QUANTIFY THE ECONOMIC BENEFITS OF SCIENTIFIC RESEARCH—I. C. R. Byatt and A. V. Cohen—HMSO (Brit. Inform. Services), 1969, 25 p., diagrams, paper, 80¢. Suggests method by which the economic benefits of scientific research might be assessed, and outlines scheme to quantify the benefits arising from curiosity-oriented research in science and technology.

LEAD 68: Edited Proceedings, Third International Conference on Lead, Venice—European Lead Development Committee—Pergamon Press, 1970, 461 p., illus., paper, \$18.50. Conference papers deal with developments in lead cable sheathing, lead acid batteries, and chemical and other applications of lead.

THE LIVING COWRIES—C. M. Burgess—Barnes, A. S., 1970, 389 p., 44 color plates, maps, \$30. An illustrated reference for collectors and malacologists to the known living members of the genus *Cypraea* Linnaeus 1758. Each species is described in non-technical terms, with carefully drawn maps of distribution.

MOVING THE OBELISKS—Bern Dibner—MIT Press, 1970, 64 p., illus., paper, \$2.95. Describes the early engineering feat of moving and erecting the Vatican obelisk in 1586, as well as later obelisks in London, New York and Paris.

OUT-OF-SCHOOL SCIENCE ACTIVITIES FOR YOUNG PEOPLE—R. A. Stevens—Unesco (Unipub), 1969, 129 p., paper, \$2. Handbook reviews experiences in various countries with the organization of science clubs, science fairs, camps, youth science meetings, museums, nature conservation programs and related activities.

THE PHARMACOPEIA OF THE UNITED STATES OF AMERICA (The United States Pharmacopeia)—Committee of Revision—USPC (Mack Pub. Co.), 1970, 18th rev. ed., 1,167 p., diagrams, \$17.50. Official from September 1, 1970, this authoritative source of standards for strength, quality and purity for the most important U.S. drugs in use, contains monographs covering 1,103 drugs and dosage forms, general tests and reagents.

104 EASY PROJECTS FOR THE ELECTRONICS GADGETEER—Robert M. Brown—TAB Bks., 1970, 160 p., diagrams, \$6.95; paper, \$3.95. An assortment of tubeless and transistorless devices, from Sonalert intrusion alarm to slide-switch loudness control.

THE PAPERS OF ROBERT H. GODDARD, Vol. I: 1898-1924; Vol. II: 1925-1937; vol. III: 1938-1945—Esther C. Goddard, Ed., G. Edward Pendray, Assoc. Ed.—McGraw-Hill, 1970, 1707 p., illus., slipcase, \$150. Includes the reports to the Smithsonian Institution and The Daniel and Florence Guggenheim Foundation. Throws new light on the accomplishments, quality and character of the American rocket pioneer.

Textbooks

THE ARACHNIDS: An Introduction—Keith R. Snow—Columb Univ. Press, 1970, 84 p., illus., \$5. Deals with this arthropod group at an elementary level while describing in detail their characteristics, appearances and ways of life.

BASIC CONCEPTS OF PROBABILITY AND STATISTICS—J. L. Hodges, Jr. and E. L. Lehmann—Holden-Day, 1970, 2nd ed., 441 p., \$9.50. Directed to students in all disciplines, arranged so that emphasis can be placed on either probability or statistics, and within the latter on either estimation or testing.

CHEMICAL SYSTEMS: Energetics, Dynamics, Structure—J. A. Campbell and others—Freeman, 1970, 1,111 p., illus., \$12.50. Text interweaves continually the experimental and theoretical material, emphasis is on molecular behavior, with many exercises and problems on reaction chemistry included.

GENERAL CHEMISTRY—Linus Pauling—Freeman, 1970, 3rd ed., 959 p., illus., \$12.50. Designed for undergraduates with special interest in chemistry, presents in a logical way, in their relationship to chemistry, the theories of atomic and molecular structures, quantum mechanics, statistical mechanics and thermodynamics.

GENERAL PSYCHOLOGY: Modeling Behavior and Experience—William N. Dember and James J. Jenkins—Prentice-Hall, 1970, 784 p., illus., \$9.95. Gives comprehensive overview of the field with emphasis on theoretical models, close tie between theory and empirical data, and the basic language and methods of scientific psychology.

INTRODUCTION TO PLANT ECOLOGY—Maurice Ashby—St. Martin's Press, 1969, 2nd ed., 287 p., photographs, diagrams, \$6.75. Offers background knowledge to the study of plant communities in the field, designed to make ecology a stimulating ingredient of the elementary biology course.

MODERN GENERAL TOPOLOGY—Jun-Iti Nagata—Wiley, 1969, 353 p., \$14.75. Text and advanced reference book, includes, besides regular material, also recent theories, especially on metric space, paracompact space, and mapping.

SYNTHESES AND REACTIONS IN ORGANIC CHEMISTRY—William E. Parham—Wiley, 1970, 547 p., diagrams, paper, \$9.95. Designed as a self-study program in organic reactions for first-year graduate students or for advanced undergraduates.

UNDERSTANDING CHEMICAL THERMODYNAMICS—George C. Pimentel and Richard D. Spratley—Holden-Day, 1970, 219 p., illus., \$6.50; paper, \$3.95. Addressed to students taking general introductory chemistry course, not necessarily majoring in physical science, but who need to see the coherence of chemistry through the meanings and implications of thermodynamic principles.

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films OF THE WEEK

THE FORGOTTEN FAMILIES. 16mm, color, sound, 28 min. Filmed among migrant agricultural workers. The first half portrays a mother seeking care for a sick baby, and shares the problems and confusion she faces. The second half shows ways in which different communities meet the health needs of the migrant workers who serve them. Audience: civic, educational, voluntary and professional health groups, including medical and allied professions. Free loan from National Medical Audiovisual Center (Annex), Station K, Atlanta, Ga. 30324, or purchase-information from General Services Administration, National Archives and Records Service, Washington, D. C. 20409, Attn: Government Film Sales.

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THE HURDLER. 16mm or Super 8mm., color, sound, 16 min. Deals with the late Dr. Charles Drew, a black scientist, whose pioneering research in blood plasma led to the modern blood bank system. Shows Dr. Drew's determined hurdling of racial barriers from his diligent drive for honors at Amherst, to establishing the first blood banks for the American Red Cross. Thousands of saved lives in World War II can be attributed to Dr. Drew's work. In the words of President Harry S. Truman, "... talent and genius have no boundaries of race, or nationality, or creed." Audience: upper elementary through college. Purchase 16mm \$200 or Super 8mm \$160 from The New York Times, Library Services and Information Division, 229 West 43rd St., New York, N. Y. 10036.

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NUMBERS AND THEIR RELATIONSHIPS. 16mm, b&w, sound, five films 20 min. each. Titles are: Binary Number, Two-State Systems, Pattern for Numbers, Pattern and Growth, and Numbers from Shape. The last four must be shown as a series. A variety of illustrations such as models and animations help to make the subject exciting. Films develop the idea of base in number work. Counting systems with different bases lead to counting in twos (binary system); this, in turn, leads to an explanation of a two-state system, the Pascal Triangle, the Fibonacci series and the Golden Section. Audience: primarily for those students who find mathematics increasingly difficult and who need to understand why mathematics is important in everyday life. Purchase \$125 each, or rental \$12 each from Time-Life Films, 43 West 16th St., New York, N. Y. 10001.

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