

books OF THE WEEK

THE ADAPTIVE GEOMETRY OF TREES

—Henry S. Horn—Princeton Univ. Press, 1971, 144 p., illus., \$7.95; paper, \$3.95. Organized around the traditional problem of plant succession, the author studies patterns of adaptive strategies among trees, calculates predictive patterns of photosynthetic response, light penetration and the shape of tree crowns.

THE ANALYSIS OF INTELLIGENCE—J. P. Guilford and Ralph Hoepfner—McGraw-Hill, 1971, 514 p., illus., \$16.95.

An account of a coordinated program of research of basic intellectual functions and processes extending over the period from 1949 to 1969, demonstrates how rational applications of multiple-factor-analytical procedures can yield results for psychological concepts and theory.

CLIMATES OF THE POLAR REGIONS—S. Orvig, Ed.—Am. Elsevier Pub. Co., 1971, 370 p., diagrams, maps, \$39.75.

Volume 14 in the World Survey of Climatology, based on long records from Greenland, and on recent observations from the North and South Pole regions. Comprehensive analysis of the climate of Antarctica incorporates data up to 1968.

THE ECOLOGY OF RUNNING WATERS—H. B. N. Hynes—Univ. of Toronto Press, 1971, 555 p., plates, drawings, diagrams, \$25.

A comprehensive treatment of stream limnology, reviews critically and synoptically the world literature on the ecology of rivers and streams, studies ranging from Peru and Chile to Alaska and Nova Scotia, from Iceland and Siberia to Spain, India, Australia and New Zealand.

THE ENVIRONMENTAL DESTRUCTION OF SOUTH FLORIDA: A Handbook for Citizens—William Ross McCluney, Ed.—Univ. of Miami Press, 1971, 134 p., paper, \$1.95.

Provides factual information about the environment of the region and alerts the public to the growing danger of environmental damage.

THE EUROPEAN DISCOVERY OF AMERICA: The Northern Voyages A.D. 500-1600—Samuel Eliot Morison—Oxford Univ. Press, 1971, 712 p., illus., maps, \$15.

A fascinating tale of early explorations by sea, separating legend from fact, based on scholarly research of yet untranslated sources, and brought alive by the author's retracing by sea and air of some of the better documented historical routes.

HORMONAL AND ATTRACTANT PESTICIDE TECHNOLOGY 1971—Yale L. Meltzer—Noyes Data Corp., 1971, 280 p., diagrams, paper, \$35.

Culled from the world's patent literature and technical articles, coverage includes insect hormones as pesticides, juvenile hormone and related products, ecdysone and related products, brain hormone, and a wide range of specific insect attractants.

INDUSTRIAL POLLUTION CONTROL HANDBOOK—Herbert F. Lund, Ed.—McGraw-Hill, 1971, 1,000 p., illus., \$29.50.

Authoritative manual, presents practical and reliable methods of air and water pollution control for specific industrial operations, quality standards and community relations, and research programs in waste management.

LASERS—Bela A. Langyel—Wiley-Interscience, 1971, 2nd ed., 386 p., illus., \$14.95.

Scientific expositions of the principles and techniques involved in the design and construction of solid, liquid and gas lasers, as well as semiconductor lasers, fluid and chemical laser types.

PUFFIN ISLAND—Ada and Frank Graham, Jr.—Cowles Bk. Co., 1971, 140 p., photographs by Les Line, \$4.95.

The story of two boys

and a biology teacher exploring a small Canadian island off the coast of Maine, observing the life in tidal pools and the nesting and hatching of terns, petrels, razorbills and puffins.

A RAP ON RACE—Margaret Mead and James Baldwin—Lippincott, 1971, 256 p., \$6.95.

A dialogue between anthropologist and writer, exchanging insights on such racial reactions as the black trying to adopt white culture, Australian Manus reacting to black American troops, the African heritage of rhythm lost in two generations of black middle class rearing, and many more pertinent observations.

REGENERATION: Key to Understanding Normal and Abnormal Growth and Development—S. Meryl Rose—Appleton, 1971, 264 p., illus., \$7.95.

Presents the problems of cellular differentiation in non-specialist terms, emphasis is on the control of differentiation during regeneration of lost parts, with applications to the problems of embryonic and of tumor development.

SCIENCE IN HISTORY, Vol. 1: The Emergence of Science. Vol. 2: The Scientific and Industrial Revolutions. Vol. 3: The Natural Sciences in Our Time. Vol. 4: The Social Sciences: Conclusion—J. D. Bernal—MIT Press, 1971, 1,325 p., 398 illus., paper, \$3.95 per volume, \$15 per boxed set.

Analytical overview of the rise of science and its impact on human affairs, and how it has altered economic, social and political beliefs and practices. Reprint of 3rd ed. (1969), each volume contains complete index.

THE SOCIOLOGICAL TRADITION—Robert A. Nisbet—Basic Bks., 1971, 349 p., paper, \$3.95.

Reprint (1966), discusses developments in the unit-ideas of sociology—community, authority, status, the sacred, and alienation.

TEST YOURSELF FOR SCIENCE—Robert L. Silber and Ronald D. Baker—Scientific Manpower Commission, 1971, 48 p., illus., paper, \$1; together with up-to-date bibliography.

SEARCH: Science, Engineering and Related Career Hints by Eleanor Babco, \$1.25 direct to publisher, 2101 Constitution Ave., N.W., Washington, D.C. 20418. Offers puzzles and problems in the physical and biological sciences.

WATCHERS IN THE WILD: The New Science of Ethology—Daniel Cohen—Little, Brown, 1971, 178 p., illus. by John Hamberger, \$5.95.

Describes for young adults how ethologists work, their observations of herring gulls, jackdaws, baboons and gorillas, and some of the controversies that resulted from the conclusions of ethologists.

THE WOLF-MAN by the Wolf-Man—Muriel Gardiner, Ed., foreword by Anna Freud—Basic Bks., 1971, 370 p., photographs, \$10.

Contains the memoirs of one of Freud's classic cases, the patient's recollections of Sigmund Freud, Freud's own complete case history of his patient's infantile neurosis, and a psychiatrist's diagnostic impressions of later meetings with the Wolf-Man, now 85 years old.

THE WOMAN DOCTORATE IN AMERICA: Origins, Career and Family—Helen S. Astin—Russell Sage Foundation, 1970, 196 p., \$7.95.

A quantitative and qualitative description and analysis of the contemporary U.S. woman with a Ph.D., her contributions to society and her competence to manage several major jobs at once.

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SN-5-29-71

may 29, 1971

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