

books OF THE WEEK

AGRICULTURAL PRACTICES AND WATER QUALITY—Ted L. Willrich and George E. Smith, Eds.—Iowa State Univ. Press, 1971, 415 p., illus., \$7.95. Scientific information, representing many disciplines, presents and evaluates the existing body of facts on agriculture's contributions to polluted water and offers alternative solutions to provide clean water.

ANIMAL EXPERIMENTS IN PHARMACOLOGICAL ANALYSIS—Floyd R. Domer—Thomas, C.C., 1971, 669 p., illus., \$26.50. A systematic presentation of techniques, both *in vivo* and *in vitro*, employed in the field of experimental pharmacology. Deals with specific drug action and extrapolates findings at the cellular or subcellular level to the intact functioning of the animal under experimentation.

BIOPHILOSOPHY—Bernhard Rensch, transl. from German by C.A.M. Sym—Columbia Univ. Press, 1971, 377 p., illus., \$12.50. Attempts to construct a harmonious world view of life on the basis of present-day biological knowledge and philosophical concepts.

THE EMERGING PERSONALITY: Infancy Through Adolescence—George E. Gardner—Delacorte Press, 1971, 292 p., \$6.95. Book grew out of a seminar for mothers at The Children's Hospital Medical Center of Boston, designed to impart up-to-date, authoritative information on the physical and emotional development and care of children.

A GLOSSARY OF MYCOLOGY—Walter H. Snell and Esther A. Dick—Harvard Univ. Press, 1971, rev. ed., 181 p., diagrammatic line drawings by Henry A. C. Jackson, \$6.50. Defines nearly 7,000 terms, from "abaxial" to "zymogenous."

HISTORY OF LETTER POST COMMUNICATION BETWEEN THE UNITED STATES AND EUROPE, 1845-1875—George E. Hargest—Smithsonian Press (GPO), 234 p., illus., \$4.25. A history of postal treaties, contracts and conventions explaining the development of transoceanic postal service during the early steamship era.

HOW TO USE VECTORSCOPES, OSCILLOSCOPES & SWEEP SIGNAL GENERATORS—Stan Prentiss—TAB Bks., 1971, 256 p., illus., \$7.95; paper, \$4.95. Useful information, directed toward doing specific jobs with specific type instruments.

INNOCENT KILLERS—Hugo and Jane van Lawick-Goodall—Houghton, 1971, 222 p., plates, maps, \$10. Fascinating account written for the general reader of scientific, close observations of the behavior of three East African carnivores—the Cape hunting dogs, the spotted hyena species, *Crocota*, and the Golden or Asiatic jackal, illustrated with more than 100 extraordinary action photographs.

INSECT HORMONES—V. B. Wigglesworth—Freeman, 1971, 159 p., illus., \$6.50. An account of current ideas about hormones in insects, illustrated by numerous specific examples, deals with the hormonal aspects of growth and moulting, arrested development, metamorphosis, reproduction, neurosecretion, feed-back, regeneration and polymorphism.

THE INTERVIEW AS ARENA: Strategies in Standardized Interviews and Psychotherapy—John D. Davis—Stanford Univ. Press, 1971, 204 p., diagrams, tables, \$6.95. The title refers to the Roman arena, where the action was staged, and views the psychotherapeutic interview as a social relationship where the participants jockey for advantageous positions.

MAN'S DOMINION: The Story of Conservation in America—Frank Graham, Jr.—Evans (Lippincott), 350 p., illus., by John Pimlott, \$8.95. The story of the men and women who shaped the conservation movement, from the late 19th century to the present—foresters, naturalists, legislators and scientists.

THE NEUROSCIENCES: Second Study Program—Francis O. Schmitt, Ed.-in-Chief—Rockefeller Univ. Press, 1971, 1,068 p., 607 illus., ref. ed. \$60; prof. ed. \$30. Covers research on the physical basis of brain function, from development of the nervous system, determinants of neural and behavioral plasticity, neural subsystems and physiological operations, to aspects of molecular neurobiology, and control at the molecular level.

THE ONGOING EVOLUTION OF LATIN AMERICAN POPULATIONS—Francisco M. Salzano—Thomas C. C., 1971, 717 p., illus., \$25.25. An estimated 250 million persons of great ethnic variety live in widely differing habitats, climates and socioeconomic conditions in Latin America. This book brings together studies on the sociocultural background, on population structure, anthropometric studies, physiological adaptation, and genetic polymorphisms.

PATHOGENIC ROOT-INFECTING FUNGI—S. D. Garrett—Cambridge Univ. Press, 1970, 294 p., illus., \$12.50. Intended to be read rather than used merely for reference, the book treats the subject both from the viewpoint of its economic importance and from its biological characteristics, it examines the interaction of the fungus in the soil with the root system of the plant with regard to the whole soil/plant relationship.

PAY AND ORGANIZATIONAL EFFECTIVENESS: A Psychological View—Edward E. Lawler III—McGraw-Hill, 1971, 318 p., diagrams, \$8.95. A study of the role of money in motivating performance, the import of pay on satisfaction, and the problems of pay administration and how pay practices affect organizational effectiveness.

THE PERFECTIBILITY OF MAN—John Passmore—Scribner, 1971, 396 p., \$14.95. A historical review and philosophical consideration of the mechanisms for perfecting man now at his disposal, and the problems inherent in their use in order to perfect man.

THE PILOT MAKER—Lloyd L. Kelly as told to Robert B. Parke, foreword by Alan B. Shepard, Jr.—Grosset & Dunlap, 1971, 195 p., photographs, \$5.95. The story of the Link Trainer, the first flight simulator, and how it developed into modern aircraft, jet and spaceflight simulators.

PLANT GROWTH—Arthur C. Gentile—Natural Hist. Press, 1971, 144 p., illus., \$5.95. An introduction for the layman to the growth processes, from seed germination to primary and secondary growth and the mature plant.

PRINCIPLES OF TURFGRASS CULTURE—John H. Madison—Van Nostrand Reinhold, 1971, 420 p., illus., maps, glossary, \$18.50. Comprehensive reference, combines discussion of the principles of turf culture with research information covering anatomy, physiology, genetics, chemistry, ecology, nutrition, irrigation and other information related to optimum yield.

PROCEEDINGS OF THE PRINCETON SYMPOSIUM ON MATHEMATICAL PROGRAMMING—Harold W. Kuhn, Ed.—Princeton Univ. Press, 1971, 620 p., paper, \$12.50. Devoted to the theory and applications of constrained optimization, including linear programming and its extensions to convex programming, general non-linear and integer programming, and programming under uncertainty.

RACE AND RACES—Richard A. Goldsby—Macmillan, 1971, 132 p., photographs, diagrams, \$5.95. A black biologist addresses himself in a balanced, nonpolemical style to the existence of genetic differences among races, to the significance of environment-sensitive IQ tests, the enormous diversity within major racial groups, and the importance of cultural evolution in modern society.

THE RADIO AMATEUR'S HANDBOOK 1971—Headquarters Staff of the American Radio Relay League, Doug DeMaw, Ed.—Am. Radio Relay League, 1971, 642 p., illus., \$7.50; paper, \$4.50. Standard manual of amateur radio communication, presents radio theory and practice in terms of application of advanced radio technology.

RADIO CONTROL HANDBOOK—Howard G. McEntee—TAB Bks., 1971, 3rd ed., 320 p., illus., \$8.95; paper, \$5.95. Thoroughly updated, topics range from sequence control systems and escapements to sophisticated pulse-proportional and digital control systems.

RAND McNALLY CAMPGROUND AND TRAILER PARK GUIDE—Rand McNally, 1971, 528 p., maps, paper, \$4.95. Lists and describes over 19,000 city, civic, state, provincial and federal campgrounds and trailer parks in the U.S. and Canada, with numbered locator maps.

THE SHAPE OF MINDS TO COME—John Taylor—Weybright & Talley, 1971, 278 p., \$6.95. Explores the implications for society if man were to develop all the possibilities for control of mind and emotions by unhindered development of the techniques and processes made possible as a result of brain research.

SOUND: From Communication to Noise Pollution—Graham Chedd—Doubleday, 1971, 192 p., color photographs and diagrams, \$5.95. Explains what sound is, how we hear, the principles of acoustics, the properties of sound underwater, ultrasound, what noise is and how it can be controlled.

SUPERCONDUCTIVITY AND QUANTUM FLUIDS—Zygmunt M. Galasiewicz—Pergamon Press, 1970, 237 p., \$10.50. Monograph presents the microscopic theory of superconductivity and superfluidity, and deals with the problems which face theoretical physicists working in this field. General treatment throughout reflects the influence of the Bogoliubov school.

TIME WITHOUT CLOCKS: How Nature Tells Time—Albert Piltz and Roger Van Bever—Grosset & Dunlap, 1971, 128 p., photographs, \$3.95. Tells how living things use their biological clocks to judge time, direction and the seasons.

VENOMOUS REPTILES—Sherman A. Minton, Jr. and Madge Rutherford Minton—Scribner, 1971, 274 p., photographs, tables, paper, \$3.50. Reprint (1969) of scholarly, readable review of the poisonous snakes of the world, with glossary and bibliography.

WHAT YOU SHOULD KNOW BEFORE YOU HAVE YOUR CAR REPAIRED—Anthony Till—Sherbourne Press, 1971, 164 p., tables, glossary, \$4.95. Highly informative handbook for the layman, takes the reader behind the scenes of the five basic types of automobile repair shops, tells how to beware of phony service charges, includes "flat rate book" and gives tips on how to correct minor car problems yourself.

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