

New Books

New Books is an editorial service for readers' information. To order any book listed or any U.S. book in print, please remit retail price, plus 25¢ handling charge for each book to **BOOK ORDER SERVICE**, Science News, 1719 N Street, N.W., Washington, D.C. 20036. All books sent postpaid.

ALMOST ALL ABOUT WAVES—John R. Pierce—MIT Pr., 1974, 219 p., diagrams, \$8.95. Presents waves in all their manifestations with a modicum of mathematics, just beyond partial differential equations, covering such subjects as phase velocity and group velocity, vector and complex.

ALTERNATIVE SOURCES OF PROTEIN FOR ANIMAL PRODUCTION: Proceedings of Symposium—Natl Acad Sci, 1973, 190 p., tables, paper, \$6. Evaluates the effectiveness of protein from cereal-grain, fiber, meat and blood by-products, oilseed, fish, single-cell, and recycled animal wastes.

THE AMERICAN PEOPLE: The Findings of the 1970 Census—E. J. Kahn, Jr.—Weybright, 1974, 340 p., \$8.95. Puts in readable form a composite picture of Americans based on the voluminous data compiled by the Bureau of the Census.

ANNUAL REVIEW OF PSYCHOLOGY, Vol. 25—Mark R. Rosenzweig and Lyman W. Porter, Eds.—Annual Reviews, 1974, 544 p., \$12. Review articles cover advances in such areas as developmental psychology, experimental psycholinguistics, spatial vision, objective diagnostic tests, behavioral genetics, and personality.

ARTHRITIS: Complete, Up-to-Date Facts for Patients and Their Families—Sheldon Paul Blau, M.D. and Dodi Schultz—Doubleday, 1974, 176 p., \$5.95. An authority on arthritis and a medical writer explain the many forms of chronic arthritis, their causes, treatments, with tips for a rational regimen to minimize problems.

AUTUMN OF THE EAGLE—George Laycock—Scribner, 1973, 240 p., photographs, maps, \$6.95. Tells chronologically the full history of the American bald eagle, and the events important in its decline.

A CLASSIFICATION OF INSTITUTIONS OF HIGHER EDUCATION: A Technical Report Sponsored by the Carnegie Commission on Higher Education—Clark Kerr, Chmn.—Carnegie Comm., 1973, 130 p., paper \$3. Classification includes 2,827 institutions in 18 categories, from research universities to two-year colleges and professional institutes.

CLINICAL ONCOLOGY: A Quantitative Approach—N. M. Emanuel and L. S. Evseenko, transl. from Russian—IPST (Wiley), 1974, 272 p., diagrams, tables, \$27.50. Concerned with the kinetics of tumor growth, kinetic analysis of clinical data, survival analysis, and kinetic aspects of anatomy, location and histology of tumors.

ELECTRICAL WIRING AND LIGHTING FOR HOME AND OFFICE—Edward L. Safford—TAB Bks, 1974, 204 p., photographs, diagrams, \$7.95; paper, \$4.95. Practical handbook, starts with simplified description of why and how an electric system works, and ends with discussion of special wiring systems and concepts.

ENERGY CRISES IN PERSPECTIVE—John C. Fisher—Wiley, 1974, 206 p., diagrams, tables, \$9.95.

Using quantitative and analytical approach, the author shows the web of world energy activities—from discovery through recovery, transportation, refining, distribution, and use—molded by the forces of supply and demand which in turn, are shaped by interrelated political, social, economic and technical pressures.

A FIELD GUIDE TO THE INSECTS OF BRITAIN AND NORTHERN EUROPE—Michael Chinery—HM, 1974, 356 p., 60 color plates, 500 line drawings, \$9.95. Comprehensive identification guide to all types of insects found in Ireland, Britain and Europe north of the Alps. End papers provide visual survey of contents and quick reference to plates.

FLOWERS OF GUATEMALA—Carol Rogers Chickering, foreword by Julian A. Steyermark—U of Okla Pr, 1973, 132 p., 50 full-page color plates, maps, \$15. Collection of floral portraits and description of the 12 botanical climate belts of Guatemala, ranging from tropical rain forests in the north to the alpine heights of the volcanic belt west of Guatemala City.

FRONTIERS OF SCIENCE, 1: Introduction to Physics. 2: Introduction to Modern Medicine—S. T. Butler and Robert Raymond, foreword by Bentley Glass—Anchor/Doubleday, 1974, 64 p. each, drawings, paper, \$1.95 each. Provides an up-to-date glimpse of scientific achievement, accurately, in the form of graphic strips, modeled on the popular comic strip.

HANDBOOK OF SEMICONDUCTOR CIRCUITS—TAB Bks, 1974, 448 p., diagrams, paper, \$5.95. This reprint of **MILITARY STANDARDIZATION HANDBOOK**, Selected Semiconductor Circuits, offers 124 well-designed examples of contemporary circuits as a reference source for technicians and hobbyists.

THE IMMORTALITY FACTOR—Osborn Segerberg, Jr.—Dutton, 1974, 410 p., \$10. Well-written, comprehensive and annotated account of man's striving for immortality, his concern with aging, rejuvenation, prolongation of life, the science of senescence, and biological gerontology.

IMMUNOLOGY: An Introduction to Molecular and Cellular Principles of the Immune Responses—Herman N. Eisen—Har-Row Med Dept, 1974, 310 p., 260 illus., paper, \$10. Reprint of immunology section of **MICROBIOLOGY**, 2nd ed., 1974, by Davis et al. Up-to-date and suitable for self-instruction in this rapidly expanding field.

MAN'S QUEST FOR AUTONOMY: A Background for Modernization—David Rodnick—Caprock Pr, 1974, 365 p., paper, \$9.95. Presents in compressed form an overview of man's efforts to create security for himself, from the earliest fossil record to the contemporary industrial and scientific age as reflected by civilizations around the globe.

MIGRAINE: Evolution of a Common Disorder—Oliver Sacks, foreword by William Goody—U of Calif. Pr, 1973, 220 p., illus., paper, \$2.95. Abbreviated paper edition, omits some specialized sections, maintaining the original's double perspective of portraying migraines as both physical and symbolic events.

MINERALS YEARBOOK 1971, Vol. II: Area Reports, Domestic. Vol. III: Area Reports, International—Bureau of Mines staff—USDI (GPO), 1973, 812 p., 1112 p., \$8.25, \$10. Annual reports on the minerals industry of each of the 50 States, and of the latest available mineral statistics for more than 130 foreign countries.

THE MOLECULAR AND HORMONAL BASIS OF PLANT-GROWTH REGULATION—Ya'acov Leshem, transl. from Hebrew—Pergamon, 1974,

156 p., illus., tables, \$7.50. Deals with the basic principles of modern molecular biology, with emphasis on molecular processes believed to be under hormonal control. Second part treats general aspects of hormonal action.

NEBRASKA SYMPOSIUM ON MOTIVATION 1972—James K. Cole and Donald D. Jensen, Eds.—U of Neb Pr, 1973, 356 p., illus., \$8.95; paper, \$4.25. Focuses on research on both human and animal aggression, with one paper developing a theoretical base for the evolution of aggression in man.

PARTICLES, SOURCES AND FIELDS, Vol. II—Julian Schwinger—A-W, 1973, 459 p., \$18.50. Almost exclusively concerned with quantum electrodynamics; emphasis is on exploration and elaboration of viewpoints and techniques that should be viable in the domains of strong and weak interactions.

PICTORIAL ASTRONOMY—Dinsmore Alter, Clarence H. Cleminshaw and John G. Phillips—T. Y. Crowell, 1974, 4th ed., 328 p., color plates, 300 photographs and drawings, \$10. This latest revision of the popular astronomy book for amateurs includes new developments in our understanding of planets, pulsars, neutron stars, black holes, quasars, the interstellar medium, and galactic structure.

PLANETFALL—Martin Caidin—Coward, 1974, 250 p., photographs, \$7.95. Using the findings of space probes, the author unravels like a scientific detective story new discoveries and further speculations about the planets, describes the road map of space, and man's robots exploring it.

POLYMER SCIENCE STUDY GUIDE—Gerald S. Kirshenbaum—G&B, 1973, 135 p., illus., paper, \$8.50. Intended to bridge the gap between classroom and home study of the rapidly maturing field of polymer science.

REGULATION OF INSECT POPULATION BY MICROORGANISMS—Lee A. Bulla, Jr., Ed.—N.Y. Acad. of Sci, Annals, Vol. 217, 1974, 243 p., tables, paper, \$26. Papers discuss the theory and application of microbial insect control; the variety of viruses, bacteria, fungi and protozoa available for regulation; and the biological and procedural factors affecting success.

RUST AND ROT and What You Can do About Them—R. M. E. Diamant—St Martin, 1973, 140 p., illus. by E. Mudge Marriott, \$5.95. Intended mainly for the householder and car owner, the book tells how science and technology help us combat corrosion, rusting and scaling, dry-rot and woodworm.

THE STRUCTURE OF MATTER: The Growth of Man's Ideas on the Nature of Matter—Joan Solomon—Halsted Pr, 1974, 180 p., illus., \$9.95. Presuming no previous scientific knowledge, the author traces the development of one particular theme in the history of scientific thought, frequently relating developments to contemporary literature, art and philosophy.

WILDLIFE OF EASTERN AUSTRALIA—Stanley & Kay Breeden—Taplinger, 1974, 224 p., color plates, photographs, drawings, \$12.95. Generously illustrated natural history of the wildlife of Australia's east coast, presented in the context of habitats ranging from the true tropics of northern Queensland to temperate Tasmania.

WRAPPED FOR ETERNITY: The Story of the Egyptian Mummy—Mildred Mastin Pace; Kenneth Jay Linsner, Consultant—McGraw, 1974, 192 p., photographs, drawings by Tom Huffman, \$6.95. A well-researched, fully illustrated and easily readable recreation of the mummifying practices in the ancient world.

march 16, 1974

183