

books OF THE WEEK

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THE MAIDEN VOYAGE—Geoffrey Marcus—Viking Press, 1969, 320 p., photographs, \$8.95. The dramatic account of the Titanic, from embarkation to the courtroom inquiry after the disaster, written by British naval historian.

MAN AND THE COMPUTER: Technology as an Agent of Social Change—John Diebold—Praeger, 1969, 157 p., \$5.95. An insider's assessment of the impact of automation on education, business and management, with some long-term speculations on the meaning of the current technological revolution.

MEN IN GROUPS—Lionel Tiger—Random House, 1969, 254 p., \$6.95. A scholarly study of the universal phenomenon of male groups, relates man's ancient biological history to the complex social patterns of contemporary communities with focus on the biological category of "maleness."

104 SIMPLE ONE-TUBE PROJECTS—Robert M. Brown—TAB Bks., 1969, 192 p., diagrams, \$6.95; paper, \$3.95. Easy-to-build construction projects for technicians, experimenters and hobbyists.

THE PHYSICS OF METALS: 1. Electrons—J. M. Ziman, Ed.—Cambridge Univ. Press, 1969, 433 p., diagrams, \$14.50. Treats the electronic properties of metals, metallic electrons in a magnetic field, transport properties, experimental studies of the structure of metals, and alloys and transition metals.

PLURALISM IN AFRICA—Leo Kuper and M. G. Smith, Eds.—Univ. of Calif. Press, 1969, 546 p., \$12.75. Interdisciplinary symposium papers analyzing the nature and social consequences of pluralism and the problems of social cohesion and change in the plural structure of African societies.

POPULATION GENETICS AND EVOLUTION—Lawrence E. Mettler and Thomas G. Gregg—Prentice-Hall, 1969, 212 p., illus., \$6.95; paper, \$3.95. Presents the process of evolution from the standpoint of the genetic changes that occur among populations, introducing such recent concepts as genetic load, optimum heterozygosity and interdemec selection.

THE QUARK MODEL—J. J. J. Kokkedee—Benjamin, 1969, 239 p., diagrams, \$12.50; paper, \$5.95. Based on a series of lectures for experimental high-energy physicists, the book summarizes attempts to give a tentative expression of an as yet obscure dynamics inside the hadron with the help of the quark model.

SENSORY DEPRIVATION: Fifteen Years of Research—John P. Zubek, Ed.—Appleton, 1969, 522 p., illus., \$9.50. Comprehensive and critical review of research methods, variables and effects of SD on brain function, stress, personality and motivation, and other areas of applied psychology.

THE SOUL OF THE APE—Eugene Marais, introd. by Robert Ardrey—Atheneum, 1969, 226 p., photographs, \$5.95. A study of the habits of chacma baboons in Northern Transvaal leading to comparisons of the primitive, instinctive mind with man's subconscious mentality.

THE SOVIET MODEL AND UNDERDEVELOPED COUNTRIES—Charles K. Wilber—Univ. of N.C. Press, 1969, 241 p., \$7.50. Constructs the Soviet model of forced economic development achieved by central planning and direction, and evaluates the resulting agricultural, industrial and social strategies for the lessons they hold for underdeveloped countries.

SPICES, Vol. I: The Story of Spices. The Spices Described—John W. Parry—Chemical Pub. Co., 235 p., photographs, \$8.75. Combines a lively history of the use of spices with an outline of the origin and nature of specific spices.

STREAMS OF CULTURE—Sir Gavin de Beer—Lippincott, 1969, 237 p., \$5.95. Scientific essays on evolution and genetics in which the writer seeks to counter the "two cultures" argument by pointing out the many streams of creative imagination and insight that together form the human culture pattern.

TEACHING AND LEARNING IN CITY SCHOOLS: A Comparative Study—Eleanor Burke Leacock—Basic Bks., 1969, 263 p., \$7.50. A study of elementary school classrooms by members of

various disciplines with emphasis on teaching in the context of socialization.

THE TEACHING OF SCIENCE: Education, Science and Society—F. R. Jevons—Allen & Unwin (Humanities Press), 1969, 208 p., \$6. Deals with science teaching in secondary schools and universities, designed primarily to help bring a scientific background to careers outside the laboratory.

THEORY OF FREE-RADICAL POLYMERIZATION—Kh. S. Bagdasar'yan, transl. from Russian by J. Schmorak—IPST (Daniel Davey), 1969, 317 p., diagrams, \$17. Discusses kinetics and mechanism of polymerization and deals with the reactivities of free radicals.

THIN FILM PHENOMENA—Kasturi L. Chopra—McGraw-Hill, 1969, 844 p., illus., \$24.50. A comprehensive and up-to-date, critical account of all the known phenomena peculiar to thin films as a result of their geometry and microstructure, deals with the mechanical, electrical, superconducting, magnetic and optical behavior of films.

TURMOIL AND TRANSITION: Higher Education and Student Politics in India—Philip G. Altbach, Ed.—Basic Bks., 1969, 277 p., \$7.50. Studies explore the problems of student unrest in India, illustrating the role of university students in developing countries.

THE YEAR OF THE WHALE—Victor B. Scheffer—Scribner, 1969, 213 p., illus., \$6.95. Absorbing narrative follows a young sperm whale from September through August, with intermittent scientific notes on the study of whales, conservation and other relevant comments.

YOUR HEART AND HOW TO LIVE WITH IT—Lawrence E. Lamb, M.D.—Viking Press, 1969, 247 p., illus., \$5.95. An up-to-date and clear discussion, in layman's language, of how the heart works, how environment, food and exercise affect the heart and how to take care of defective hearts.

TEXTBOOKS

CHEMISTRY: A Quantitative Approach—R. Nelson Smith—Ronald Press, 1969, 639 p., diagrams, \$10.50. Textbook for the science-oriented student, assuming a good mathematical preparation.

COMPARATIVE VERTEBRATE HISTOLOGY—Donald I. Patt and Gail R. Patt—Harper, 1969, 438 p., illus., \$14.95. Textbook stresses broader perspective than usual college histology texts by treating the microscopic anatomy of diversified forms of vertebrate life, with emphasis on their evolutionary significance and adaptation.

DYNAMIC PROGRAMMING—D. J. White—Holden-Day, 1969, 180 p., \$10.50. Intended for advanced undergraduate and graduate students, the text covers the optimal path problem, the nature of dynamic programming, deterministic processes, stochastic and adaptive processes, including proof of some results.

ELEMENTARY STATISTICS—G. Hadley—Holden-Day, 1969, 457 p., diagrams, \$9.75. Text for a one-semester introductory course intended for a broad group of students in the social and biological sciences, economics and education.

FOUNDATIONS OF COLLEGE CHEMISTRY—Daniel B. Murphy and Viateur Rousseau—Ronald Press, 1969, 676 p., illus., \$10.50. Introductory text, progresses from observation to theory, designed to challenge the strongly motivated student without discouraging the others.

LABORATORY MANUAL FOR CHEMISTRY: A Quantitative Approach—R. Nelson Smith, John E. Quinlan and Alvin L. Beilby—Ronald Press, 1969, 175 p., illus., paper, \$4.25. Designed for use in a one-year chemistry course, describes techniques and 13 experimental principles and procedures involving quantitative measurements.

MODERN ORGANIC CHEMISTRY—Rodger W. Griffin Jr.—McGraw-Hill, 1969, 513 p., diagrams, \$10.95. Although designed for the nonmajor, the text discusses mechanistic and synthetic organic chemistry to lay a good foundation of the principles of modern chemistry.

PATTERNS AND PROCESSES OF SCIENCE: Laboratory Text No. 1—J. A. M. Brock, Donald W. Paulsen and Fred T. Weisbruch—Heath, 1969, 192 p., illus., \$7.68. Contains more than 50 experiments on the junior high school level.

PHYSICS: Foundations and Frontiers—George Gamow and John M. Cleveland—Prentice-Hall, 1969, 2nd ed., 591 p., illus., \$10.50. Revision, based on teaching experience, includes rearrangement of topics, expanded explanations, and nearly three times as many student questions and problems.

PSYCHOLOGY: Its Principles and Applications—T. L. Engle and Louis Snellgrove—Harcourt, 1969, 612 p., illus., \$4.32. High school text with many new suggestions for activities and projects.

MICRO ADS

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