

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.

ANASAZI: Ancient People of the Rock—Donald G. Pike—Am West, 1974, 8 x 11, 192 p., color photographs by David Muench, map, \$16.95. Full-color portfolios with informative text evoke a vivid portrait of the people who built Mesa Verde, Chaco Canyon, the Square House in Wupatki, Montezuma Castle, the kivas of Pueblo Bonita, and the Gila Cliff Dwellings.

ANGER—Leo Madow, M.D.—Scribner, 1974, 132 p., paper, \$2.45. Neurologist discusses, for nonpsychiatric physician as well as layman, the levels of manifestation of anger in the individual, and how to recognize and deal with anger so that it does not accumulate and produce pathological changes in the individual.

BLOOD COMPATIBLE SYNTHETIC POLYMERS: An Introduction—Stephen D. Bruck—C. C. Thomas, 1974, 142 p., diagrams, \$9.75. Intended for investigators who lack formal background in polymer science. Outlines macromolecular science with biomedical applications in mind, discusses the biological environment in reference to hematological considerations, and deals with special problem areas in the interaction of blood with materials.

THE COMPLETE BOOK OF SALTWATER AQUARIUMS: How to Equip and Maintain Your Marine Aquarium and Understand Its Ecology—Robert A. Stevenson, Jr.—Funk & W, 1974, 192 p., photographs, drawings, \$6.95. In this handbook professional aquarist combines practical advice with general discussion of sea habitats and fish behavior.

THE CRAYFISH: An Introduction to the Study of Zoology—T. H. Huxley; foreword by S. A. Raymond—MIT Pr, 1974, 400 p., 82 woodcuts, \$12.50. Reprint (1879) of a classic of scientific exposition, an outstanding example of the interaction of an animal with the searching mind of a disciplined, talented observer.

A FIELD GUIDE TO WILDFLOWERS of Northeastern and Northcentral North America: A Visual Approach, Arranged by Color, Form and Detail—Roger Tory Peterson and Margaret McKenny—HM, 1974, 448 p., color plates, 1344 illus. by R. T. Peterson, map, paper, \$3.95. Unabridged softcover edition of 1968 identification guide covering almost 1300 species.

THE FREE EARTH GUIDE TO GARDENING—Jack Kramer—Walker & Co, 1974, 160 p., photographs, drawings, \$7.95. A consumer's guide to economical gardening, lists illustrated catalogs, special sources of plants and other garden supplies, plant societies, flower shows, arboretums, public gardens, free services, free containers, and other savings.

THE INTERNATIONAL LAW OF POLLUTION—James Barros and Douglas M. Johnston—Free Pr, 1974, 494 p., \$14.95. Intended as a practical research tool for those concerned with environmental pollution control on a multinational or global basis.

THE JOY OF WORK—John Keefe and Stanley J. Stein—Rosen Pr, 1974, 128 p., photographs, diagrams, \$4.80. Designed as a vocational

guide, deals with job characteristics, satisfaction and boredom, career choices, personal characteristics and aptitudes, women workers, and job changing.

LONELINESS: The Experience of Emotional and Social Isolation—Robert S. Weiss and others, foreword by David Riesman—MIT Pr, 1973, 260 p., \$8.95. A study of the nature of loneliness, discusses case studies of various responses to emotional or social isolation.

THE MILEPOST: All-the-North Travel Guide 1974—Bob Henning, Ed.—Alaska Northwest, 1974, 26th ed., 656 p., photographs, maps, "plan-a-trip" folding map, paper, \$3.95. Specific tourist guidebook and general information for travel in Alaska, the Yukon, northern British Columbia and Northwest Territories.

THEY SAVED OUR BIRDS: The Battle Won and the War to Win—Helen Ossa—Hippocrene Bks, 1974, 287 p., photographs, \$6.95. Readable and well-documented, tells how some species of birds were brought close to extinction, how some made a come-back, which species still need special attention, and lists the local societies active in this field.

THE USE OF TRACERS TO STUDY HETEROGENEOUS CATALYSIS—John Happel and Miguel A. Hnatow, Eds.—N.Y. Acad. of Sci., Annals, Vol. 213 1973, 246 p., diagrams, tables, paper, \$22. Papers and discussions deal with reaction structure and mechanisms, and with exchange and industrial reactions.

TEXTBOOKS

EXPERIMENTAL PHYSICS FOR STUDENTS—R. M. Whittle and J. Yarwood—Chapman & Hall (Halsted Pr), 1974, 370 p., diagrams, \$16.25. Contains descriptions of about 200 undergraduate-level, project-type experiments in optics, mechanics of solids and fluids, sonics, thermal phenomena, electrical measurements, physical electronics, magnetism, and nucleonics.

GENERAL THEORY OF RELATIVITY—C. W. Kilmister—Pergamon, 1974, 365 p., \$11.50; paper, \$6.50. Undergraduate text, examines the general theory by analogy with Newton's gravitational theory and the theory of electrodynamics. Concludes with selection of original papers made readily comprehensible by the theoretical introduction of the text.

PHYSICAL MODELS FOR SEMICONDUCTOR DEVICES—John E. Carroll—Crane-Rusak, 1974, 267 p., diagrams, paper, \$11.25. Concise, up-to-date text explains the physical concepts, conduction and equilibrium in solids, P-N junctions, their use in amplifiers and control devices, waves in crystals, hot electron devices, and optical devices.

THE SPECIAL THEORY OF RELATIVITY—H. Muirhead—Halsted Pr, 1974, 175 p., diagrams, \$12.75. Undergraduate text written by high-energy nuclear physicist. Deals first with the difficulties in physics resolved by means of Einstein's special theory of relativity, then develops application of the theory, mainly to kinematic, optical and electromagnetic problems.

WAVE MECHANICS AND ITS APPLICATIONS—P. Gombás and D. Kisdi—Pergamon Pr, 1974, 238 p., \$10.50. Elementary text, deals with the fundamentals of quantum mechanics, Bohr's atom model, the elements of wave mechanics, and presents examples of solutions of the Schrödinger equation, scattering problems, and simplest approximate methods and their applications.

Kommunikation und Kybernetik in Einzeldarstellungen, Volume 7

The Measurement of Verbal Information in Psychology and Education

By K. Weltner

1973. xiii, 185p. cloth/\$22.40
ISBN 0-387-06335-8

It is important for teachers to be able to evaluate the subject matter, estimate the extent of the teaching task, and measure the learning increment. Information theory can now be applied for this purpose.

Professor Weltner has developed a new theoretical basis which enables the semantic content or subjective information of a printed text to be measured.



Please send your orders to
Springer-Verlag New York Inc.
175 Fifth Avenue
New York, NY 10010

AUTHORS

your book should be published now

If your manuscript contains knowledge or observations that should be shared with others, we want to publish it. Your book will get professional editing, first-rate design and production, plus expert promotion and distribution. You are invited to send your fiction, nonfiction or poetry manuscript for prompt review and terms of publication, or you may ask for our free *Authors' Guide to Publication*.

DORRANCE & CO. • Book Publishers Since 1920
Dept. W, 1617 J. F. K. Blvd., Phila., Pa. 19103

SCIENCE TEACHERS. Volunteer **PEACE CORPS.** Two years in local school systems of developing countries overseas. Develop curricula/teaching aids, train teachers, participate in team teaching workshops. **U.S. Citizen, Single or Couples only.** Information: Bruce Mazzie, **ACTION, OCP Box T-17, Washington, D.C. 20525.**

May 4, 1974

293