

books OF THE WEEK

Listing is an editorial service for readers' information. For convenient purchase of any book listed or any U.S. book in print, remit retail price (we pay postage) plus 25c handling charge if price is less than \$2 to Book Order Service, Science News, 1719 N St., N.W., Washington, D.C. 20036. Prices subject to publishers' changes. Be sure to include zip code in your address.

ACOUSTICAL HOLOGRAPHY, Vol. 1—A. F. Metherell, H.M.A. El-Sum and Lewis Larmore—Plenum Press, 1969, 294 p., photographs, diagrams, \$15. Proceedings of the First International Symposium, a reference source to the field of holography, arranged in 16 sections, from ultrasonic image detection methods to acoustical filtering with holographically matched spatial filters.

AGRICULTURAL ORIGINS AND DISPERSALS: The Domestication of Animals and Foodstuffs—Carl O. Sauer—M.I.T. Press, 1969, 2nd ed., 175 p., maps, \$7.50; paper, \$2.95. The study links—from a possibly common origin—the development of animal and plant domestication through herding and seed reproduction, and traces the dispersal and divergence of the knowledge of these skills.

ANALYZING CHILDREN'S ART—Rhoda Kellogg—National Press Bk., 1969, 308 p., drawings, photographs, \$8.95. Analyzes the characteristics of line formation in the drawings of two- to eight-year-olds, as they progress from scribbles to symbols to visual images.

COMMON EDIBLE MUSHROOMS—Clyde M. Christensen—Univ. of Minn. Press, 1969, 124 p., 62 photographs, diagrams, \$4.50; paper, \$2.45. Simple and reliable guide to the identification of wild mushrooms.

DEMAGOGUES IN THE DEPRESSION: American Radicals and the Union Party, 1932-1936—David H. Bennett—Rutgers Univ. Press, 1969, 341 p., photographs, \$10. A study of political extremism in the nineteen-thirties, recounting the history of the leaders and their movements, from inception to dissolution.

EXPERIENCES—Arnold Toynbee—Oxford Univ. Press, 1969, 417 p., photographs, \$8.75. Autobiographical reminiscences and philosophical commentary on the changes in human affairs during the historian's lifetime.

EXPERIMENT AT BERKELEY—Joseph Tussman—Oxford Univ. Press, 1969, 139 p., \$5; paper, \$1.75. A polemic on the nature and function of higher education, the role of teacher, student and curriculum, in particular the Experimental Program at Berkeley which attempts to provide a coherent scheme of liberal education for the first two undergraduate years.

AN INTRODUCTION TO CHROMATOGRAPHY—David Abbott and R. S. Andrews—Houghton, 1968, 70 p., illus., paper, \$1.75. Discusses at freshman level the theory of paper chromatography, thin layer, column and gas chromatography, and suggests experiments in all four techniques.

INVENTION OF THE METEOROLOGICAL INSTRUMENTS—W. E. Knowles Middleton—Johns Hopkins Press, 1969, 362 p., illus., \$12. Concentrates on the early history of various instruments and inventions up to the point where their technical development reached mature sophistication. Instruments range from the barometer and wind-vane to telemeteorography and the radiosonde.

KAUAI and the Park Country of Hawaii—Robert Wenkam, foreword by David Brower—Sierra Club/Ballantine Bk., 1969, 160 p., 72 color photographs, map, paper, \$3.95. A history of the land and its uses by man, magnificently illustrated.

THE NEW GUIDE TO STUDY ABROAD: Summer and full-year programs for high-school students, college and university students and teachers—John A. Garraty, Walter Adams and Cyril J. H. Taylor—Harper, 1969, 431 p., woodcuts by Gail Garraty, \$7.95. Helpful general advice, information, and evaluation of more than 500 foreign study programs.

ORIENTAL RUGS AND THE STORIES THEY TELL—Arthur T. Gregorian—Nimrod Press, 1967, 232 p., 116 photographs, maps, \$14.50. Explains Persian, Turkish, Caucasian and Turko-

man rugs to the interested layman, the history and technique of rug weaving, the variety of design and symbols, as well as methods of classification.

THE ORIGINS OF INTELLECT: Piaget's Theory—John L. Phillips, Jr.—Freeman, 1969, 149 p., diagrams, paper, \$2.75. Presents Piaget's original theory of the development of intelligence, at a relatively nontechnical level, together with illustrations of his research activities to give the theory meaning.

THE RADIO AMATEUR'S HANDBOOK—American Radio Relay League Staff, Doug DeMaw, Ed.—ARRL, 1969, 46th ed., 710 p., illus., 576 diagrams, \$6.50; paper, \$4. Up-to-date standard manual of amateur radio communication.

SCIENCE AND THE FEDERAL PATRON—Michael D. Reagan—Oxford Univ. Press, 1969, 346 p., \$7.50. A scholarly exploration of the justifications and criteria for government support of science, the challenges, the need for a national social science foundation and possible improvements in the federal patronage of science.

SEVEN KEYS TO THE ROCKY MOUNTAINS—Richard M. Pearl with Elizabeth Shafer—Maxwell Pub. Co., 1968, 212 p., illus., maps, \$6.95. A survey of the Rocky Mountains, their geology, geography, vegetation, animals, aborigines and colonizers.

SOCIAL THOUGHT IN THE SOVIET UNION—Alex Simirenko, Ed.—Quadrangle Bks., 1969, 439 p., \$14.95. Offers an annotated review of trends in the social sciences in the various disciplines, with emphasis on Soviet contributions and developments since de-Stalinization. Of interest to both the social scientist and general reader.

SOURCES OF NUCLEAR FUEL—Arthur L. Singleton, Jr.—USAEC, 1968, 67 p., illus., maps, paper, single copies free upon request direct to USAEC, P.O. Box 62, Oak Ridge, Tenn. 37830. Booklet informs reader about types of uranium deposits, U.S. locations, significant occurrences of uranium in the world, prospecting, mining, milling and refining.

THE STORY OF MEDICINE—Roberto Margotta; Paul Lewis, Ed.—Golden Press, 1968, 319 p., paintings, drawings, photographs, \$17.95. A colorful volume designed to give an idea of the effort to understand and conquer disease, from primitive surgery and magical rites to recent achievements in vaccines and surgical transplants.

SUPERNOVAE—I. S. Shklovsky, transl. from Russian—Wiley-Interscience, 1969, 444 p., illus., \$20. Monograph summarizes what is known about supernovae and galactic nebulae which are remnants of outbursts of the type II supernovae; radio and optical emission from the Crab Nebula, the origin of cosmic radiation and the causes of supernova explosions.

THE TECHNOLOGY OF THE TETRACYCLINES—R. C. Evans, Ed.—Quadrangle Press, 1968, 617 p., diagrams, paper, \$35. Compendium of patented production processes for the five tetracyclines marketed in 1967. Material is arranged in the research-production sequence of strain selection and characterization, inocula production, fermentation, recovery and purification, assay, and physical and chemical properties.

TOBACCO AND YOUR HEALTH: The Smoking Controversy—Harold S. Diehl, M.D.—McGraw-Hill, 1969, 271 p., illus., \$4.95. Treats the tobacco problem from an historical and scientific perspective, presents the facts about the effects of smoking on health, why people smoke, why many still consider smoking controversial, and what can be done to break the habit.

UPPER WATERS OF THE INTERTROPICAL PACIFIC OCEAN—Mizuki Tsuchiya—Johns Hopkins Press, 1968, 50 p., maps, \$8.50. Study with maps showing distribution of water characteristics and circulation of the upper ocean layers studied with use of both isanosteric analysis and geostrophic calculation.

VERTEBRATE ADAPTATIONS: Readings from SCIENTIFIC AMERICAN—Introd. by Norman K. Wessells—Freeman, 1969, 368 p., photographs, diagrams, \$10; paper, \$5.45. Collection of articles on general properties of living systems at the molecular level, examining the main control systems of vertebrates, how those systems are modified and used in unique ways to allow the diversity of life.

THE WILD REALM: Animals of East Africa—Louis S. B. Leakey, foreword by Leonard Carmichael—National Geographic Society, 1969, 200 p., 175 illus. in color, map, \$4.55 direct to publisher, Dept. 100, Washington, D.C. 20036. Gives insight into the balanced and interrelated life pattern of the mammals of East Africa.

WINTER FLOWERS IN GREENHOUSE AND SUN-HEATED PIT—Kathryn S. Taylor and Edith W. Gregg—Scribner, 1969, rev. ed., 281 p., photographs, \$7.50. Up-dated edition incorporates new gardening aids and 28 additional years' practice with pit and greenhouse gardening.

For Younger Readers

THE DISCOVERY OF THE GALAXIES—Compiled by Colin Ronan—Jackdaw Pubns. (Grossman Pubns.), 1969, kit in 9" x 14" envelope, \$2.95. Contains historic maps, facsimile of famous astronomers' letters, photographs and charts of galaxies and nebulae, star chart in the form of planisphere, sealed envelope with problem, and five informative broadsheets.

EXPLORING GRAND CANYON NATIONAL PARK—Robert Scharff; Donald D. Wolf, Ed.—World Pub. Co., 1969, 48 p., photographs, diagrams, maps, \$2.95. Describes the geologic history, derivation of place names, flora and fauna, explores rim and interior of the canyon and the Indians of the region.

EXPLORING YELLOWSTONE NATIONAL PARK—Robert Scharff; Donald D. Wolf, Ed.—World Pub. Co., 1969, 48 p., photographs, diagrams, \$2.95. Describes geology, hydrothermal features, fauna and flora of park.

HARVEY AND THE CIRCULATION OF THE BLOOD—Compiled by Jonathan Miller—Jackdaw Pubns (Grossman Pubns.), 1969, kit in 9" x 14" envelope, \$2.95. Contains facsimiles of primary source materials, portraits, manuscripts, charts, X-ray of healthy heart, electrocardiogram and five informative broadsheets.

MOSQUITOES—Charles L. Ripper—Morrow, 1969, 64 p., illus. by author, \$3.25. Accurate information for boys and girls, illustrated in great detail.

IN MOTION—Alfred K. Buchanan and William G. Martin—Prentice-Hall, 1969, 68 p., illus. by William Brooks, \$3.95. Experiments demonstrating such concepts as speed, velocity and kinetic energy put in the form of a spy story where experiments give clues to two briefcases hurled from a train in motion.

THE RESPIRATORY SYSTEM: How Living Creatures Breathe—Alvin and Virginia B. Silverstein—Prentice-Hall, 1969, 60 p., illus. by George Bakacs, \$3.95. Tells boys and girls how humans breathe, as well as fish, insects and plants.

WINGS, SUN AND STARS: The Story of Bird Migration—John Kaufmann—Morrow, 1969, 159 p., illus. & diagrams by author, \$4.25. Excellent description of the physical characteristics of bird flight incorporating recent research on navigation and migration routes of different species.

WONDERS OF PARASITES—Philip Goldstein—Lantern Press, 1969, 139 p., illus., \$3.95. Narrative about the intimate relationship that exists between parasites and their unwilling hosts, from worms in frog lungs to baby clams attached to fish.

WORLD ON A STRING: The Story of Kites—Jane Yolen—World Pub. Co. 1968, 143 p., photographs, drawings, \$3.95. A study of the sport of kite flying around the world, showing the wide variety of types of kite construction and uses.

Bodybuilding For Everyone

By Lou Ravelle

A complete guide to physical development for people of both sexes, written for the average person who wants to get into better shape, tone up muscles, lose or gain weight, etc. Includes both simple, basic exercises which require no equipment and more advanced ones with barbells and weights; also exercises for specific muscles and body areas. Programs and instructions fully and clearly explained. Illustrated with photos and drawings.

Order Now!

\$4.95 Postfree • 10-Day Money-Back Guarantee

EMERSON BOOKS, Inc., Dept. 138-S
251 West 19th Street, New York, N.Y. 10011

FREE CATALOGUES OF SCIENCE BOOKS

State your interest! Mathematics, physics, history of science, general science, biology, social sciences, earth sciences, chemistry, languages, philosophy, engineering. Dover publishes over 100 books per year; quality production standards, priced for your budget. Dept. SNL, DOVER, 180 Varlek St., New York, N. Y. 10014.

AUTHORS WANTED BY NEW YORK PUBLISHER

Your book can be published, promoted, distributed by a reliable company on a subsidized basis. Fiction, non-fiction, poetry, scholarly, scientific and even controversial manuscripts welcomed. For Free Booklet write Vantage Press, Dept. T8, 120 W. 31 St., New York 10001.

April 12, 1969/vol. 95/science news/367