Books of the Week

Listing is for readers' information, not advertising. For convenient purchase of any book listed or any U.S. book in print, remit retail price (we pay postage) plus 25¢ handling charge if price is less than \$2 to Book Department, Science Service, 1719 N St., N.W., Washington, D. C. 20036.

AMERICA IN SPACE: A Pictorial Review—
NASA (GPO), 72 p., photographs, paper, 45c.
Depicts vehicles and astronauts in the U.S. space program.

ANAXAGORAS AND THE BIRTH OF PHYSICS
-Daniel E. Gershenson and Daniel Greenberg, —Daniel E. Gershenson and Daniel Greenberg, introd. by Ernest Nagel—Blaisdell Pub. Co., 563 p., \$10. Historical view of the ideas, traditions and modern interpretations of Anaxagoras, presented by a team of classical scholar and theoretical physicists.

THE AUSTRALIAN ABORIGINES—A. P. Elkin, foreword by Margaret Mead—Doubleday, 3rd ed., 369 p., 24 plates, paper, \$1.95. Anthropologist's sympathetic study of contemporary Stone Age men.

sympathetic study of contemporary Stone Age men.

BONES, BODIES AND DISEASE: Evidence of Disease and Abnormality in Early Man—Calvin Wells, Praeger, 288 p. 88 photographs, illus., \$6.95. The author combines familiarity with both anthropology and medicine in these interpretations of actual remains and artifacts, and reconstructs specific cases.

CAUSAL INFERENCES IN NONEXPERIMENTAL RESEARCH—Hubert M. Blalock, Jr.—Univ. of N. C. Press, 200 p., diagrams, \$5. Book is addressed to theoreticians and methodologists in the social sciences, treating the subject from both a theoretical and statistical point of view.

THE CRISIS IN MEDICAL EDUCATION—
Lester J. Evans—Univ. of Mich. Press, 101 p., diagrams, \$4. Physician takes a critical look at U.S. medical schools and calls for an approach to medicine that takes more into account the personal needs of the retient natient.

DARWIN OF THE BEAGLE—Bern Dibner—Blaisdell, 2nd ed., 143 p., illus., paper, \$1.95. Readings in the history of science.

DISCRETE DYNAMIC PROGRAMMING: An Introduction to the Optimization of Staged Processes—Rutherford Aris—Blaisdell Pub. Co., 148 p., diagrams, \$5. Deals with the principle of optimality, graphical methods, problems in economics, communication theory, and associated methematical ideas.

GEM **TESTING**

B. W. Anderson

New edition ● Greatly expanded • Completely revised and up-to-date • A mine of practical gem information



Partial Contents: How to use this book. Refractive index and measurement. Double refraction and how to detect it. Colour, colour filters, and the dichroscope. The specific gravity of gemstones and how to measure it. Detection of synthetic and imitation stones. The use of the microscope. The use of the spectroscope. The identification of ruby. The identification of sapphire. Identification of emerald. Aquamarine and alexandrite. Identification of zircon. Identification of topaz. Identification of pink, mauve, or lilac stones. Identification of brown and orange stones. Quartz, opal, and the garnets. Tourmaline, peridot and spinel. Jade and jade-like minerals. Turquoise and lapis lazuli. Cat's-eyes, starstones and others. Amber, tortoiseshell, coral and jet. Pearls: real, cultured and imitation. Fluorescence as an aid to identification. Appendix. Names and addresses of recommended suppliers.

Large hardbound book, handsome cloth binding.

Profusely illustrated; Indexed.

\$9.95 Postfree (Reduced from \$11.50)
10-Day Money-Back Guarantee. ORDER NOW!

EMERSON BOOKS, Inc., Dept. 171-P, 251 West 19 Street, New York 11

FERDINAND MAGELLAN, CIRCUMNAVIGATOR—Charles McKew Parr, introd. by Edward L. Beach—Crowell, 423 p., illus, \$8.50. Second edition of book originally (1953) published under the title SO NOBLE A CAPTAIN, describes the life and explorations of the Portuguese who circled the globe in 1519. FERDINAND MAGELLAN,

FOLK, REGION AND SOCIETY: Selected papers of Howard W. Odum—Katherine Jocher and others, Eds.—Univ. of N.C. Press, 480 p., \$8. Collection of essays by sociologist, presents the development of the South from folkways to regionalism.

HAWLEY'S TECHNICAL SPELLER—Gessner G. Hawley with Alice W. Hawley—Reinhold, 146 p., paper, \$2.50. Selection of technical words in several fields of science, includes basic units and combining forms, especially in chemistry, to enable the user to "make up" the terms he needs.

HOPE AND HELP IN PARKINSON'S DISEASE
—John C. Button, Jr., preface by Tracy Jackson
Putnam—Transcript Press, Norman, Okla., 2nd ed.,
196 p., paper, \$1.50. Written by physician for
patients and their families.

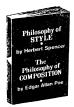
HORNS — Larry Kettelkamp — Morrow, 48 p., illus. by author, \$2.75. Explains to children the history of development and the principles of sound produced by the various horn and trumpet instruments.

LABORATORY STUDIES IN PHYSICAL GE-OLOGY—Wakefield Dort, Jr.—Burgess, 2nd ed., 222 p., illus., paper, \$4.50. Exercises dealing with topo-graphic and geologic maps are designed to lead the student to observe, relate and deduce with increasing confidence in his judgment.

THE LIFE OF PLANTS—E. J. H. Corner—World Pub. Co., 315 p., photographs, drawings, \$12.50. The author, a tropical botanist and mycologist, presents panoramic picture of how the chief kinds of plants have developed, from the planktonic cells of the oceans to the majestic trees of tropical and temperate forests.

MEET THE FUTURE: People and Ideas in the Libraries of Today and Tomorrow—Edith Patterson Meyer—Little, 278 p., illus. by Anton Schedl, \$4.75. A popular discussion of various types of libraries, the kinds of people needed by libraries and library education.

NATIONAL PHYSICAL LABORATORY: Report or the Year 1963—Dept. of Scientific and Industrial tesearch—HMSO (Brit. Inform. Services, N.Y.), 62 p., illus., paper, \$3.50. Report on research in rogress in the various divisions of the British counerpart to our National Bureau of Standards.



WRITE FOR MONEY!

Enrich your style through Herbert Spencer's and Edgar Allan Poe's classic principles that have influenced many of the world's great authors. Indispensable for writers eager to get published! Send \$1.00 to PAGEANT PRESS, 101 5th AVE., N. Y. 8, Dept. SN

FREE LIVE SEAHORSES

Guaranteed LIVE SEAHORSES sent Air Mail PPD. The educational hobby every-one enjoys, easy to keep in jar or bowl. FREE food, catalog and simple instruc-tions for raising these fascinating un-usual bizarre agustic pets, MATEO PAIR \$4.48 receive another PAIR FREE. (one address) F. F. MARINE LIFE

DANIA, FLA



NSDAP HAUPTARCHIV: Guide to the Hoover Institution Microfilm Collection—Grete Heinz and Agnes F. Peterson— Hoover Inst., 175 p., \$4.50. Detailed guide arranged by subject and by source, lists reels of a group of original documents related to the National Socialist Party's background, history and organization. organization

ON RIEMANN'S THEORY OF ALGEBRAIC FUNCTIONS AND THEIR INTEGRALS: A Supplement to the Usual Treatises—Felix Klein, transl. from German by Frances Hardcastle—Dover, 76 p., diagrams, paper, \$1.25. Reprint (1893) with new

OPERATION AND CONTROL OF WATER TREATMENT PROCESSES—Charles R. Cox—World Health Organization (Int'l Doc. Serv., N.Y.), 390 p., \$7.25. Prepared in consultation with 24 specialists in various countries.

PHARMACY: A Synthesis of Sciences—John T. Fay, Jr.—Heath, 134 p., photographs, diagrams, paper, \$1.32. Stresses the dependence of pharmacy on the basic sciences, and presents the interrelationships of the many different branches in a readable

THE POND—Robert Murphy—Dutton, 254 p., illus. by Teco Slagboom, \$4.95. This winner of the 1964 Dutton Animal Book Award is a novel about a boy who lives close to nature.

PORTRITO F AN ISLAND—Mildred and John Teal—Antheneum, 167 p., illus. by Richard Rice, \$3.95. Wildlife observed at Sapelo Island, one of the sea islands of Georgia, through the eyes of a marine biologist and his wife.

A RANGE GUIDE TO MINES AND MINERALS: How and Where to Find Valuable Ores and Minerals in the United States—Jay Ellis Ransom—Harper, 305 p., photographs, \$5.95. Short introduction to mining and minerals with state-by-state discussion of existing mines and location of valuable ores.

RELATIVITY AND COMMON SENSE: A New Approach to Einstein—Hermann Bondi—Doubleday, 177 p., diagrams, paper, \$1.25. A nonmathematical explanation of the theory of relativity, written by scientist for the layman.

RIDING WITH CORONADO: From Pedro de Castenedo's Eyewitness Account—Robert Meredith and E. Brooks Smith, Eds.—Little, 107 p., illus. by Leonard Everett Fisher, \$3.75. Adaptation for young readers from a Spanish account of one of the expeditions in the exploration of the Southwest.

THE ROCKEFELLER FOUNDATION: Annual THE ROCKEFELLER FOUNDATION: Annual Report for 1963—J. George Harrar, Pres.—Rockefeller Foundation, 319 p., photographs, paper, single copies free upon request direct to publisher, 111 W. 50th St., New York 20, N.Y. Lists grants for which \$37 million were appropriated in 1963, and reviews the programs under development.

the programs under development.

SOCIAL BEHAVIOR AND ORGANIZATION

AMONG VERTEBRATES—William Etkin, Ed.—
Univ. of Chicago Press, 307 p., illus., \$7.50. Nontechnical analytical description of social behavior
among animals from the ecological and evolutionary
points of view with discussion of recent experimental
research in specific areas.

SPACE COMMUNICATIONS—Stanley Leinwoll-Rider, J. F., 166 p., illus, paper, \$3.95. Tells ho communication satellites work and how radio ameteurs can participate actively in space projects. radio ama-

SWALLOWS—Charles L. Ripper—Morrow, 64 p., illus. by author, \$2.75. Introduces the swallow family to beginning readers.

THERMODYNAMIC AND TRANSPORT PROPERTIES FOR THE HYDROGEN-OXYGEN SYSTEM—Roger A. Svehla—NASA (OTS), 419 p., paper, \$6. Results of improved calculations are presented in tabular and also, in some cases, in graphical form

WORLD BENEATH THE WAVES — Walter Buehr—Norton, 112 p., illus. by author, \$3.25. Juvenile literature about life in the sea and modern

• Science News Letter, 86:172 Sept. 12, 1964

Do You Know?

Electricity heated 1.4 million homes in this country in 1963, compared to 250,000 in 1956.

Since 1900, the average man's *life span* has increased 23 years, his height two inches and his weight 20 pounds.

The average patient entering a mental hospital today has a 70% to 85% chance of leaving the hospital considerably improved or totally recovered within a few months.

Science News Letter, 86:172 Sept. 12, 1964