

books OF THE WEEK

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ABOVE AND BEYOND: The Encyclopedia of Aviation and Space Sciences, Vol. 1 of 14 vols.—Jean F. Blashfield, Raymond J. Johnson and L. S. Jess, Eds.—New Horizons Publishers, 1967/68, 185 p., color photographs, illus., wall charts; set of 14 vols., 2,800 p., \$69.95. Some 3,500 entries, curriculum-oriented, alphabetically arranged, signed articles in first volume cover such topics as ablation, aerial photography, airborne antennas, air lock, airmail (12 pp.), animals in space, and Apollo (25 pp.).

THE AFRICAN WITCH: With Particular Reference to Witchcraft Beliefs and Practice among the Shona of Rhodesia—Michael Gelfand, foreword by Rev. Father M. Hannan, S.J.—Livingstone (William & Wilkins), 1967, 240 p., 23 plates, \$7.25. A study of the Shona concept of witchcraft, of actual court cases, types of witches, factors influencing accusations, and the effects of belief in witchcraft.

ALICE HAMILTON: Pioneer Doctor in Industrial Medicine—Madeleine P. Grant—Abelard-Schuman, 1968, 223 p., photographs, \$4.75. A well-researched and highly readable biography, for young people and old.

ANIMAL COORDINATING MECHANISMS—Benjamin W. McCashland—Brown, Wm. C., 1968, 118 p., illus., paper, \$1.95. Intended as a guide for the student beginning serious considerations of functional biology, deals with the neuron, synaptic conduction, receptors, the nervous system, and hormones.

BACKGROUND TO EVOLUTION IN AFRICA—Walter W. Bishop and J. Desmond Clark, Eds.—Univ. of Chicago Press, 1967, 935 p., illus., maps, \$27.50. Papers presenting new evidence by paleontologists, geologists and archaeologists, necessitating revision of established ideas about the origins and development of landscapes, animal species, patterns of vegetation, and man and his hominid and hominoid predecessors.

BEGINNING BIOCHEMISTRY: A Simplified Guide to the Chemistry of Life—William Berman—Sentinel Bks., 1968, 160 p., illus., paper, \$1.25. Presents background information at the high school level, encouraging students to build molecular models, and suggesting experiments.

BIENNIAL REVIEW OF ANTHROPOLOGY, 1967—Bernard J. Siegel and Alan R. Beals, Eds.—Stanford Univ. Press, 1967, 368 p., \$9. Summarizes and appraises recent papers and monographs in such various fields of current research as cultural change, language, problems in physical anthropology, and Mesoamerican archaeology.

CHEMISTRY, PHYSICS AND APPLICATION OF SURFACE ACTIVE SUBSTANCES, Vol. I: Chemistry of Surface Active Substances—F.

Asinger, Ed.—Gordon & Breach, 1967, 549 p., illus., \$39.50. Proceedings of Section A of the IVth International Congress, Brussels, 1964.

EMERGENT APPROACHES TO MENTAL HEALTH PROBLEMS—Emory L. Cowen, Elmer A. Gardner and Melvin Zax—Appleton, 1967, 474 p., \$9. Describes several innovative approaches in conceptualization, community programs and new sources of manpower, and in working through the schools to deal with the mental health problems of the complex modern society.

ENTOMOLOGY OF ANTARCTICA—J. Linsley Gressitt, Ed.—Am. Geophysical Union, 1967, 395 p., illus., \$17. Covers taxonomically species of land arthropods and species of marine mites and discusses most of the Antarctic environments.

ESKIMO MASKS: Art and Ceremony—Dorothy Jean Ray—Univ. of Wash. Press, 1967, 246 p., photographs by Alfred A. Blaker, drawings, \$12.50. Presents the esthetic and ceremonial aspects of Eskimo masks pictorially and analyzes all aspects of Eskimo life relative to masks. Includes descriptive catalogue of each mask illustrated.

ESTIMATES AND PROJECTIONS OF EDUCATIONAL ATTAINMENT IN THE U.S.S.R., 1950-1985—Ann S. Goodman and Murray Feshbach—Bureau of the Census (GPO), 1967, 23 p., paper, 25c. Projects data both for the population 10 years old and over and for the population 16 years old and over, and discusses the significant results of the projections.

FAMOUS ASTRONOMERS—James S. Pickering—Dodd, 1968, 128 p., plates, \$3.50. Follows the development of astronomy through the lives and work of 10 major astronomers, from Aristotle to Herschel.

GREAT WATERS. A Voyage of Natural History to Study Whales, Plankton and the Waters of the Southern Oceans—Sir Alister Hardy—Harper, 1968, 542 p., photographs, drawings by author, maps, \$10.96. Chief zoologist on the old Discovery recreates his field experiences of 40 years ago to reveal the evolution of modern oceanography, with particular attention to Antarctic marine zoology.

HANDBOOK OF THE ENGINEERING SCIENCES, Vol. II: The Applied Sciences—James H. Potter, Ed.—Van Nostrand, 1967, 1428 p., diagrams, \$37.50. Practical reference for the engineer, with 18 major sections ranging from thermal phenomena through materials science to computers.

HATCH AND GROW—Ivah Green and George A. Smith—Abelard-Schuman, 1968, 149 p., photographs by G. A. Smith, \$4.50. Describes habits of familiar insects shown in close-up photographs in their natural surroundings.

THE HYOID AND ITS ASSOCIATED MUSCLES IN SNAKES—David A. Langebartel—Univ. of Ill. Press, 1968, 156 p., illus., paper, \$4.95. A study of variation in the hyoid apparatus of snakes, and the differences in associated muscles, correlating findings phylogenetically.

KNOWLEDGE AND THE FUTURE OF MAN: An International Symposium—Walter J. Ong, S.J., Ed.—Holt, 1968, 276 p., \$7.95. Essays written for the 150th anniversary of Saint Louis University, topics range from the future of learning in tropical Africa to discussion of biology and human values.

NATURE IN MINIATURE—Richard Headstrom-Knopf, 1968, 425 p., 561 drawings by author, \$10. Describes what can be observed in the backyard, meadow, brook and woods nearby with the help of a pocket lens throughout the year. Includes glossary and classified bibliography.

NAVAHO WILDLANDS "as long as the river shall run"—Photographs by Philip Hyde, text by Stephen C. Jett; Kenneth Brower, Ed.—Sierra Club, 160 p., color plates, folded map, \$25. Depicts Navaho country in all its variety and grandeur, with selections from Navaho myths and chants.

THE NEW INDIANS—Stan Steiner—Harper, 1968, 348 p., photographs, map, \$7.95. Attempts to translate the thoughts of the Indians into the

words of the white man. The author gathered his report through years of wandering among Indian tribes; appendices cite sources, documents, chronology, statistics and selected bibliography.

POISONOUS PLANTS OF HAWAII—Harry L. Arnold, M.D.—Tuttle, 71 p., illus., \$2.50. Describes more than 90 varieties of toxic plants growing in Hawaii, many of them originating from countries of the temperate zone.

THE SOCIAL CONTEXT OF PREMARITAL SEXUAL PERMISSIVENESS—Ira L. Reiss—Holt, 1967, 256 p., \$7.95. Sociological study of a national probability sample in the area of premarital sexual attitudes. (SN: 1/20/68, p. 60).

THE SPELL OF MATHEMATICS—W. J. Reichmann-Methuen (Barnes & Noble), 1968, 272 p., diagrams, \$5.50. Defines many diverse aspects of mathematics, so as to present a composite illustration of their variety and aesthetic characteristics.

STAINLESS AND HEAT RESISTING STEELS—L. Colombari and J. Hochmann, transl. from French—St. Martin's Press, 1968, 545 p., illus., \$22.50. Complete revision and expansion of book originally (1955) published in Paris, incorporates progress in the alloying and manufacturing of stainless and heat-resisting steels in the major producing countries of the world.

THE STORY OF THE EARTH—William H. Matthews III—Harvey House, 1968, 124 p., photographs, illus. by John E. Alexander, \$3.95. Introduction to earth science, for young readers.

SUNDAY'S CHILD—Michael M. Miller—Holt, 1968, 230 p., \$4.95. Experienced psychiatrist's views designed to help parents to bring up happy, mentally healthy children.

TEXTBOOKS

CELL FUNCTION—L. L. Langley—Reinhold, 1968, 2nd ed., 364 p., photographs, illus. by Frances Langley, \$10. Revised edition of textbook now designed for the undergraduate.

ELEMENTARY STATISTICAL METHODS—G. Barrie Wetherill—Methuen (Barnes & Noble), 1967, 329 p., diagrams, \$7.95. Intended as a first text in statistical methods, includes careful discussion of fundamental logical principles.

EXPLORATIONS IN INTEGRATED BIOLOGY—Stanley E. Grunstream and John S. Babel—Burgess, 1968, 2nd ed., 291 p., illus., paper, \$4.75. Manual of laboratory experiences designed to meet the specific needs of a principles-oriented, integrated course in introductory biology.

LECTURES ON ADVANCED NUMERICAL ANALYSTS—Fritz John—Gordon & Breach, 1967, 179 p., \$9.50; paper, \$6.25. Reprinted and edited lecture notes of a course given at the Institute of Mathematical Sciences at New York University in 1956-57.

PHYSICAL GEOGRAPHY—Ross Norton Pearson—Barnes & Noble, 1968, 242 p., illus., paper, \$1.75. A college outline keyed to standard texts.

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