

books OF THE WEEK

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THE AFFLUENT WORKER IN THE CLASS STRUCTURE—John H. Goldthorpe and others—Cambridge Univ. Press, 1969, 239 p., \$7.50. Sociological study of the basic processes of change brought about by the growing working-class prosperity in an advanced industrial country, the Great Britain of the late 1950s and early 1960s.

ANIMAL COMMUNICATION: Techniques of Study and Results of Research—Thomas A. Sebeok, Ed.—Indiana Univ. Press, 1969, 686 p., illus., \$20. Topics range from a review of the techniques and mechanics of communication to communication in selected species of animals and the practical uses and implications of these studies for related fields of study.

ANNUAL REVIEW OF NUCLEAR SCIENCE, Vol. 19—Emilio Segre, J. Robb Grover and H. Pierre Noyes, Eds.—Annual Reviews, 1969, 635 p., diagrams, \$8.50. Topics range from rapid chemical separations, boson resonances, and pion-nucleon interactions to muonic atoms and nuclear structure.

BASIC MECHANISMS OF THE EPILEPSIES—Herbert H. Jasper, Arthur A. Ward, Jr., and Alfred Pope, Eds.—Little, Brown, 1969, 835 p., illus., \$30. Review of the major advances in the basic neurological sciences of the brain, particularly those aspects that pertain to loss of brain function control and its explosive discharges which produce epileptic seizures.

BATS OF AMERICA—Roger W. Barbour and Wayne H. Davis—Univ. Press of Ky., 1970, 286 p., color plates, photographs, range maps, \$17.50. Single reference volume for the identification and life histories of some 40 species of bats found in the U.S., including those of Alaska and the Hawaiian Islands.

THE BIOLOGY OF MOSQUITO-BORNE DISEASE—P. F. Mattingly—Am. Elsevier Pub. Co., 1970, 184 p., 12 plates, drawings, \$6.50. A review of the many-sided problems presented by mosquito-borne pathogens, discusses mosquito biology in early stages and adults, mosquito genetics and species complexes.

THE BIOLOGY OF PARASITIC FLOWERING PLANTS—Job Kuijt—Univ. of Calif. Press, 1969, 246 p., photographs, drawings, \$15. A synthesis of all the known botanical information about angiosperm parasitism; separate chapters deal with each group on a world-wide basis.

BIOMECHANICS—David Bootzin and Harry C. Muffley, Eds.—Plenum Press, 1969, 194 p., illus., \$15. Proceedings of 1967 Rock Island Arsenal Biomechanics Symposium, topics range from dynamic shape recognition to mathematical models for skilled actions.

THE BOOK OF SPICES—Frederic Rosengarten, Jr.—Livingston Pub. Co., 1969, 489 p., 330 illus., color plates, maps, \$20.

Handsomely presented study of spices, their history, botany, production and use in specific recipes.

THE CODE OF LIFE—Ernest Borek—Columbia Univ. Press, 1969, rev. ed., 226 p., illus., paper, \$2.25. Reprint (1965).

CRC HANDBOOK OF RADIOACTIVE NUCLIDES—Yen Wang, Ed.—Chemical Rubber Co., 1969, 960 p., illus., \$27.50. Convenient single source for basic information mostly in tabular form, on radioactive nuclides, instrumentation, dosimetry and applications, as well as on general radiation protection.

DOWN THE COLORADO: Diary of the First Trip Through the Grand Canyon, 1869—Wesley Powell; epilogue by Eliot Porter, foreword and notes by Don D. Fowler—Dutton, 1970, 168 p., illus., 48 color photographs by Eliot Porter, map, \$30. Beautiful tribute to a great river.

THE FEAR OF CRIME—Richard Harris, introd. by Nicholas deB. Katzenbach—Praeger, 1969, 116 p., \$4.95; paper, \$1.75. Tries to present the essence of the "law and order" controversy by recounting the enactment of the Omnibus Crime Bill during 1967-68 session of Congress.

THE FLIES OF WESTERN NORTH AMERICA—Frank R. Cole with Evert I. Schlinger—Univ. of Calif. Press, 1970, 693 p., drawings, maps, \$25. An intensive study of the Diptera including accounts of more than 8,000 species. Grouping follows the most recent classification by specialists in the various subdivisions.

GAS DYNAMICS AND THERMODYNAMICS OF SOLID-PROPELLANT ROCKETS—R. E. Sorkin, transl. from Russian by A. Barouch—I.P.S.T. (Daniel Davey), 1969, 260 p., \$14. Among topics covered are hydrodynamics and gas dynamics; exhaust velocity, weight flow rate and thrust of a rocket engine; combined grain and ignition period; deviation limits and scatter.

GENERAL THEORY OF POPULATION—Alfred Sauvy, foreword by E. A. Wrigley; transl. from French by Christophe Campos—Basic Bks., 1970, 551 p., diagrams, \$12.50. In this monumental work the author uses a variety of social science techniques to develop precise and testable models for probing the relationship between demographic-biological characteristics of societies and their economic and social circumstances.

GRAPPLING WITH A GRIFFON—R. C. H. Sweeney—Pantheon Bks., 1970, 224 p., plates, drawings, maps, \$6.95. British naturalist matches wits with the animals of the Sudan, spending several years among Nubians and the local fauna.

HANDBOOK OF FIBERGLASS AND ADVANCED PLASTICS COMPOSITES—George Lubin, Ed.—Van Nostrand Reinhold, 1969, 894 p., illus., \$27.50. Covers fiberglass and high modulus composites, contains up-to-date information on the science of reinforced plastics, organized into four major sections—raw materials, processing methods, design and applications.

HANDBOOK OF FRESHWATER FISHERY BIOLOGY, Vol. I: Life History Data on Freshwater Fishes of the United States and Canada, Exclusive of the Perciformes—Kenneth D. Carlander—Iowa State Univ. Press, 1969, 752 p., diagrams,

\$15. Revision of 1953 Handbook of Freshwater Fishery Biology.

HISTORY OF ROCKETRY AND SPACE TRAVEL—Wernher von Braun and Frederic I. Ordway III—Crowell, 1969, rev. ed., 286 p., photographs, drawings, \$17.50. Expanded to include 1969 moon landing of Apollo 11.

THE HUDSON RIVER: A Natural and Unnatural History—Robert H. Boyle—Norton, 1969, 304 p., photographs, map, \$6.95. A well-researched description of the Hudson, section by section, its history, geological characteristics, flora and fauna, and the impact of pollution.

THE INVENTOR'S PATENT HANDBOOK—Stacy V. Jones—Dial Press, 1969, rev. ed., 229 p., \$5.95. A practical guide for amateur and professional.

LARGE SCALE DESALTING: A Study in the Engineering Economics of Regional Development—Paul W. MacAvoy and Dean F. Peterson—Praeger, 1969, 124 p., \$9. Provides a balanced economic-engineering assessment of the proposal to build a 100-MGD desalting plant in Israel.

MAN MODIFIED: An Exploration of the Man/Machine Relationship—David Fishlock—Funk & Wagnalls, 1969, 215 p., illus., \$7.95. Tells of developments in bio-engineering, in applying meaningful measurements to the human body, amplifying man's physical performance, augmenting his natural limits and transplanting spare parts.

MAN ON THE MOON: The Impact on Science, Technology and International Cooperation—Eugene Rabinowitch and Richard S. Lewis, Eds.—Basic Bks., 1969, 204 p., \$5.95. Informed essays by a group of scholars and scientists probe deeply into the probable results of manned exploration of space and its effects on life here on earth.

METEOROLOGICAL DATA CATALOGUE—J. R. Nicholson—East-West Center Press, 1969, 60 p., maps, \$7.50. Monograph describes methods used to collect data during International Indian Ocean Expedition, their geographical distribution and forms of processing.

ORGANIZATION AND DEVELOPMENT OF THE EMBRYO—Ross Granville Harrison; Sally Wilens, Ed.—Yale Univ. Press, 1969, 290 p., illus., \$15. Incorporates five monographs with original illustrations concerning the molecular configuration and orientation in the organization of living matter.

SCIENCE, CONFLICT AND SOCIETY: Readings from Scientific American—Introductions by Garrett Hardin—Freeman, 1969, 384 p., photographs, diagrams, \$10; paper, \$5.75. Articles on research findings arranged under five headings: scientists and society, the roots of social behavior, population and heterogeneity, what price progress, and war.

SIPRI YEARBOOK OF WORLD ARMAMENTS AND DISARMAMENT 1968/69—Stockholm International Peace Institute—Humanities Press, 1970, 440 p., \$13. A factual and balanced account of the arms race and the attempts to stop it, recent developments, world trade in major weapons, CBW, nuclear weapons, disarmament chronology and chronology of post-World War II conflicts.