

books OF THE WEEK

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THE AVALANCHE HUNTERS—Montgomery M. Atwater, introd. by Lowell Thomas—Macrae Smith, 1968, 235 p., photographs, \$6.95. A first-hand account of the accomplishments of the snow rangers, of research done at the avalanche research center at Alta, Utah, on special snow problems and their control.

BRITANNICA YEARBOOK OF SCIENCE AND THE FUTURE 1969—Richard G. Young, Ed.—Encyclopaedia Britannica, 1968, 448 p., photographs, illus. in color, \$8.95. Features articles on current scientific achievements, from photography as a tool of science to X-ray astronomy, reviews the year's events in various fields of science, and explores career opportunities in various professions.

COLLEGE BOARD ACHIEVEMENT TEST: Physics—Stephen W. Bruenn—Arc Bks., 1968, 442 p., diagrams, \$3.95; paper, \$1.95. Sample tests and hundreds of practice questions answered and explained.

CONTACT: The Story of the Early Birds—Henry Serrano Villard—Crowell, 1968, 263 p., photographs, \$10. The story of the first flying machines and the men who invented, built and flew them, covers man's first decade of flight from Kitty Hawk to World War I.

THE CONTINUING REVOLUTION: A History of Physics from the Greeks to Einstein—Joseph Agassi with Aaron Agassi—McGraw-Hill, 1968, 225 p., illus., \$5.95. The book discusses, in the form of a father-son dialogue, the history of physics as competing metaphysical frameworks which can be criticized by scientific research.

THE CRIME LABORATORY: Case Studies of Scientific Criminal Investigation—James W. Osterburg—Indiana Univ. Press, 1968, 330 p., photographs, \$12; paper, \$5.95. Demonstrates what the investigator may expect from the scientific laboratory and what physical evidence the alert police officer needs to recognize, collect and preserve to give the crime laboratory clues to work on.

DESALINATION: Water for the World's Future—Roy Popkin, foreword by Stewart L. Udall—Praeger, 1968, 235 p., \$6.50. Traces the advancement of desalination, from ancient times to modern, and discusses the potential of salt-water conversion in concrete terms in different parts of the world.

DEVELOPING RURAL INDIA: Plan and Practice—John W. Mellor and others—Cornell Univ. Press, 1968, 411 p., \$10. Review and detailed analyses of the successes and failures of agricultural planning in three different areas—the water management of Central India, the trading patterns of grain merchants in western India, and changes in consumption and investment in a village in northern India.

ECOLOGICAL PSYCHOLOGY: Concepts and Methods for Studying the Environment of Human Behavior—Roger G. Barker—Stanford Univ. Press, 1968, 242 p., illus., \$7.50. The methods, theories and data reported in this book issue from 20 years of research at the Midwest Psychological Field Station, concerned with the interaction of behavior and environment outside laboratories and clinics.

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ENGINEERING PROPERTIES OF ROCKS—I. W. Farmer—Spon Ltd. (Barnes & Noble), 1968, 180 p., diagrams, \$5.75. Discusses the physical and mechanical properties of rocks which determine their reaction as a structural material, stress and strain, rock testing, and design criteria.

ENGLISH BAROMETERS, 1680-1860: A History of Domestic Barometers and Their Makers—Nicholas Goodison—C. N. Potter, 1968, 353 p., 158 photographs, drawings, \$15. Comprehensive study of the subject, handsomely presented.

ERROR DETECTING LOGIC FOR DIGITAL COMPUTERS—Frederick F. Sellers, Jr., Mu-Yue Hsiao and Leroy W. Bearson—McGraw-Hill, 1968, 295 p., diagrams, \$15. A guide to designing error-detection systems, including the use of Boolean Difference, the mathematical technique for analyzing logic in the presence of error.

EXPLORING THE PLANETS—V. A. Firsoff—A. S. Barnes, 1968, rev. ed., 183 p., photographs, drawings, \$8.50. Updated (1964) edition presents in a lively style, yet in astronomer's terms, what is known about earth's neighbors in the solar system and how this information has been gathered.

FACING THE UNIVERSE—V. A. Firsoff—A. S. Barnes, 1968, 122 p., photographs, \$8.50. Addressing the nonspecialist, astronomer gives historical background, discusses the sun's relationship to other stars and the different types of stars to be found in the galaxy, the formation and evolution of the galaxies and the prevalent theories on the nature of the universe.

THE FIRST CIVILIZATIONS: The Archaeology of Their Origins—Glyn Daniel—Crowell, 1968, 208 p., 79 plates, 15 maps, \$8.95. Based on a series of public lectures exploring the light archaeology can throw on the origins of the world's earliest literate town dwellers in Mesopotamia, Egypt, the Indus Valley, China, Mexico, Yucatan and Peru.

FOR SCIENCE AND NATIONAL GLORY: The Spanish Scientific Expedition to America, 1862-1866—Robert Ryal Miller—Univ. of Okla. Press, 1968, 194 p., plates, maps, \$5.95. First printed account in English of an expedition of naturalists a century ago, who sent back to Spain 82,000 items of American natural history collected between the Andes and the redwoods of California.

HANDBOOK OF PSYCHIATRIC CONSULTATION—John J. Schwab, foreword by Henry W. Brosin—Appleton, 1968, 318 p., \$7.50. Written primarily for psychiatric residents who are furnishing consultation on other medical services, offers practical suggestions on the consultation process in many different clinical situations.

INFANT, PERINATAL, MATERNAL AND CHILDHOOD MORTALITY IN THE UNITED STATES—Sam Shapiro, Edward R. Schlesinger and Robert E. L. Nesbitt, Jr.—Harvard Univ. Press, 1968, 388 p., graphs, \$7.95. An analysis of mortality data in the United States with international comparisons and projections of future trends.

INFANTILE CEREBRAL PARALYSIS—Sigmund Freud, transl. from German by Lester A. Russin, M.D.—Univ. of Miami Press, 1968, 376 p., \$15. Freud's monograph published in Vienna in 1897 when he was a recognized authority on the paralyses of children.

INTERVENTION AND REVOLUTION: The United States in the Third World—Richard J. Barnett—World Pub. Co., 1968, 302 p., \$6.95. A study of U.S. policy in international relations, of the domestic politics behind the decisions, and the American response to revolutionary activity abroad.

INTRODUCTION TO COMPUTER ENGINEERING—B. S. Walker—Hart Pub. Co., 1968, 385 p., diagrams, \$12. Primarily intended for undergraduate engineers and technologists, the volume employs systems logic, examining first the task to be done by computers, then evolving the most logical way to accomplish it.

THE LUO OF KENYA: An Annotated Bibliography—Carole E. DuPre—Institute for Cross-Cultural Research, 1968, 164 p., maps, \$2.95; paper, \$1.95. Annotated reference material with essays analyzing the literature and Luo life as revealed by the literature.

THE MATHEMATICAL SCIENCES: A Report—Committee on Support of Research in the

Mathematical Sciences, NRC—Nat. Acad. of Sciences, 1968, 256 p., paper, \$6. Report recognizes the massive demand for mathematical education and makes recommendations for support in the various areas of the mathematical sciences.

MATHEMATICS AND MENTAL GROWTH—Irving Adler—Day, 1968, 192 p., diagrams, \$4.95. Deals with the nature of the learning process, with the changes taking place in mathematics, the curriculum, the Cambridge Conference Report, high school geometry, and the group concept in the curriculum of the future.

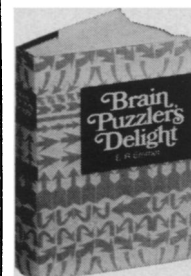
MAXIMAL ECONOMIC GROWTH: A Geometric Approach to Von Neumann's Growth Theory and the Turnpike Theorem—Jaroslav Vanek—Cornell Univ. Press, 1968, 122 p., diagrams, \$5.75. Presents the central concepts of development economics through the rigorous use of geometric analysis.

METHODS OF MICROANALYSIS, Vol. III: The Determination of Carbon and Hydrogen and the Use of new Combustion Catalysts—Miroslav Vecera and others, transl. from Czech by Kurt Gingold; J. A. Kuck, Ed.—Gordon & Breach, 1968, 580 p., illus., \$36. Research papers of value to the practicing microanalyst.

THE NATIONAL FORESTS OF AMERICA—Orville L. Freeman and Michael Frome—Putnam's, 1968, 194 p., color plates, photographs, maps, \$12.95. Describes the diversity of the lands under the National Forest System which comprises 187 million acres of forest and grassland, and outlines the many activities they provide.

NATIONAL GEOGRAPHIC SOCIETY RESEARCH REPORTS: 1963 Projects—Paul H. Oehser, Ed.—Nat. Geographic Soc., 1968, 251 p., illus., \$5. Abstracts and reviews of research and exploration authorized under grants from the Society, from the Blackwater Draw excavation in New Mexico to the Quetico-Superior underwater research project.

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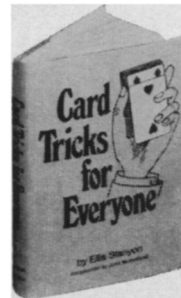
Card Tricks For Everyone

By Ellis Stanyon

Foreword by John Mulholland

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