

books OF THE WEEK

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THE BASIS OF PROGRESSIVE EVOLUTION—G. Ledyard Stebbins—Univ. of N.C. Press, 1969, 150 p., illus., \$5. Geneticist's reflections on the evolution of different levels of organization, on the evolutionary implication of the genetic code, the adaptive modification of systems of order, and the evolution of man's social organization.

CENTRAL PAIN: A Neurosurgical Survey—Valentino Cassinari and Carlo A. Pagni—Harvard Univ. Press, 1969, 192 p., illus., \$6.50. A detailed reconstruction of the phenomena that can arise from a lesion of the central nervous system; discussion ranges from pathological anatomy of spontaneous lesions causing central pain to the surgical treatment of central pain.

COALITION BARGAINING: A Study of Union Tactics and Public Policy—William N. Chermish—Univ. of Pa. Press, 1969, 286 p., \$7.95. Deals with the various facets of coalition bargaining, examines several key coalition case studies and explores the impact of such bargaining upon unions, companies, employees and the public.

CRIME AND SCIENCE: The New Frontier in Criminology—Jurgen Thorwald, transl. from German by Richard and Clara Winston—Harcourt, 1969, 494 p., 16 p. photographs, paper, \$3.85. Reprint (1967), illustrating the progress in forensic science by actual cases, the book tells the story of increasingly refined tests and microscopic detection of clues.

THE EVOLUTION OF CHEMISTRY: A History of Its Ideas, Methods and Materials—Eduard Farber—Ronald Press Co., 1969, 2nd ed., 437 p., illus., \$10. A survey of the historical development of chemistry, from earliest records through the 18th and 19th century, to the expansion of synthesis and analysis and 20th century biochemistry.

FUNDAMENTALS OF NUMERICAL CONTROL—Charles Vlahos—Chilton Book Co., 1969, 207 p., photographs, diagrams, \$8.95. A guide to the concepts of numerical control, describes the principles and economics of planning and operating numerical control devices, together with concrete examples of their application to working machines.

GRADUATE EDUCATION: Parameters for Public Policy—National Science Board, Philip

Handler, Chmn.—NSF (GPO), 1969, 168 p., graphs, paper, \$1.25. (SN 3/8, p. 231). Conclusions and recommendations are summarized in companion report **TOWARD A PUBLIC POLICY FOR GRADUATE EDUCATION IN THE SCIENCES** (GPO, 63 p., paper, 40¢).

HYPERTENSION: High Blood Pressure—Heart Information Center, NHI—GPO, 1969, 48 p., illus., paper, 50¢; single copies free upon request direct to National Heart Institute, Bethesda, Md. 20014. Explains the nature, diagnosis and treatment of hypertension to the layman.

THE INDIVIDUAL INCOME TAX AND ECONOMIC GROWTH: An International Comparison, France, Germany, Italy, Japan, United Kingdom, United States—Vito Tanzi—Johns Hopkins Press, 1969, 136 p., charts, \$8.50. This study of taxation analyzes three major issues: whether taxes dampen the initiative; relationship between tax and propensity to save; and relationship of personal income tax to country's growth rate.

INSOMNIA: The Guide for Troubled Sleepers—Gay Gaer Luce and Julius Segal—Doubleday, 1969, 370 p., \$6.95. A thorough summary of what has become known about insomnia through special studies in "sleep laboratories" and other research, discusses sleep patterns, the role of stress, habits, sex and drugs and new frontiers in the treatment of insomnia.

AN INTRODUCTION TO THE STRUCTURE OF BIOLOGICAL MOLECULES—J. M. Barry and E. M. Barry—Prentice-Hall, 1969, 190 p., illus., paper, \$4.95. A discussion of the structure of nucleic acids and protein molecules, molecular dissymmetry, carbohydrates, lipids and miscellaneous compounds.

LOST WILD AMERICA: The Story of Our Extinct and Vanishing Wildlife—Robert M. McClung—Morrow, 1969, 239 p., illus. by Bob Hines, \$5.95. Nearly 20 different mammals and birds have become extinct since 1900; this book tells how various species have been treated since Colonial days, pushed to the brink, how some were given a reprieve and have been saved.

MACHINA EX DEO: Essays in the Dynamism of Western Culture—Lynn White, Jr.—M.I.T. Press, 1969, 186 p., \$5.95. Historian's essays offer insight by showing that for a millennium technology has been an integral and major activity of the West, shaped by other forms of culture and in return affecting them.

MECHANICAL ENGINEERING FOR PROFESSIONAL ENGINEERS' EXAMINATIONS: Including Questions and Answers for Engineering Training Review—John D. Constance—McGraw-Hill, 1969, 2nd ed., 492 p., diagrams, \$11.50. Up-dated guide to help engineers prepare for their licensing examinations.

MINERALS YEARBOOK 1967, Vol. III: Area Reports, Domestic—Bureau of Mines Staff, John F. O'Leary, Dir.—GPO, 1969, 892 p., diagrams, \$5.25. Covers each of the 50 States and U.S. island possessions, also contains statistical summary

chapter and a chapter on employment and injuries.

THE PALACES OF CRETE—James Walter Graham—Princeton Univ. Press, 1969, 269 p., 153 plates, paper, \$4.95. Reprint (1962) of scholarly survey of Minoan architecture, describes in detail the principal excavation sites, the finds and reconstruction processes.

PARTICLE INTERACTIONS AT HIGH ENERGIES: Scottish Universities' Summer School 1966—T. W. Preist and L. L. J. Vick, Eds.—Plenum Press, 1967, 406 p., diagrams, \$22.50. Among topics discussed were properties of scattering amplitudes at high energy, very high-energy scattering of hadrons, some features of electromagnetic interactions, and the symmetries of weak interactions.

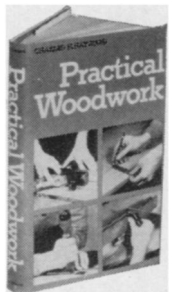
PEACEFUL USE OF NUCLEAR EXPLOSIVES: Some Economic Aspects—David B. Brooks and John V. Krutilla—Johns Hopkins Press, 1969, 48 p., diagrams, paper, \$1.50. Faced with the use of an explosive energy of unprecedented magnitude, this study deals first with engineering relationships, cost effectiveness and side effects before attempting the economic evaluation of such projects as Gasbuggy and the Sea Level Canal.

PERSEPOLIS: The Archaeology of Parsa, Seat of the Persian Kings—Donald N. Wilber—Crowell, 1969, 120 p., photographs, maps, \$7.95. Written for the general reader, the book describes the remains of the ancient city, the well-preserved bas-reliefs in picture and text, combining historical background with scholarly speculation.

TRANSFORMATION OF PETROLEUM IN NATURE: P. F. Andreev and others, transl. from Russian by Robert B. Gaul and Bruno C. Metzner, edited by E. Barghoorn and S. Silverman—Pergamon Press, 1968, 466 p., diagrams, \$18. Important contribution to the field of petroleum geochemistry, indicates possible ways for solving the problem of the origin of petroleum and the changes occurring in it.

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Art of Argument

By Giles St. Aubyn. Here is a clear, simply written basic guide to logical thinking, that shows how to spot the fallacies, the prejudices and emotionalism, the inappropriate analogies, etc., in the other fellow's argument and how to watch for and avoid the irrational in your own judgments. The author makes plain not only how but also why people resist facing the truth. A tool for clear thinking as well as for convincing others.

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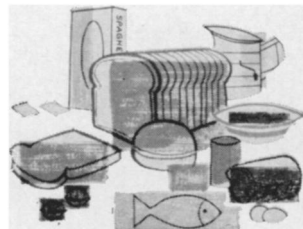


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