

books OF THE WEEK

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The ANALYSIS OF SUBJECTIVE CULTURE—Harry C. Triandis with others—Wiley-Interscience, 1972, 383 p., diagrams, tables, \$16.95. Subjective culture is defined as a cultural group's characteristic way of perceiving its social environment, which may be the cause of a good deal of intergroup conflict. The authors attempt to provide some concepts and new methodologies for analysis and insight into this aspect of human conflict.

ANTARCTICA: Authentic Accounts of Life and Exploration in the World's Highest, Driest, Windiest, Coldest and Most Remote Continent—Charles Neider, Ed.—Random House, 1972, 464 p., map, \$10. Collection of first-hand accounts of days and months in the journeys of the great explorers of Antarctica, among them Cook, Weddell, Ross, Amundsen, Cherry-Garrard, Siple and Hillary.

ATOMIC, MOLECULAR AND SOLID-STATE THEORY AND QUANTUM BIOLOGY: Proceedings of the International Symposium, Sanibel, 1971—Per-Olov Lowdin, Ed.—Wiley-Interscience, 1972, 792 p., illus., paper, \$29.95. Topics range from reminiscences of the first decade of quantum mechanics, to Fourier transformation by smooth interpolation, studies in perturbation theory, and quantum reunification of the sciences.

COMPARATIVE GUIDES to: Programs in Biological Science and Chemistry. Programs in Earth Sciences, Physics and Astronomy. Engineering Programs—James Cass and Max Birnbaum—Harper, 1972, 385 p., 245 p., 328 p., paper, \$4.95 each. The three volumes offer information about programs offered, admission, instructional environment, majors, faculty and graduates.

COMPARATIVE REPRODUCTION OF NONHUMAN PRIMATES—E. S. E. Hafez, Ed.—Thomas, C. C., 1972, 557 p., photographs, drawings, tables, \$29.50. In order to establish primate species for use as laboratory animals, the basic characteristics of the wide variety of reproductive patterns of several families of nonhuman primates are presented, discussing phylogeny and endocrinology; the male, female and infant biology; infertility; and techniques of breeding and rearing monkeys.

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION—Bernard M. Oliver and John M. Cage, Eds.—McGraw-Hill, 1972, 729 p., photographs, diagrams, \$29.50. Designed to provide the engineer with an understanding of the quantity being measured, the feasible approaches to its measurement, inherent limitations and properties, and other considerations required for systems of instruments.

ENVIRONMENTAL QUALITY ANALYSIS: Theory and Method in the Social Sciences—Allen V. Kneese and Blair T. Bower, Eds.—Johns Hopkins Press, 1972, 408 p., diagrams, tables, \$12. Brings together state-of-the-art papers by Resources of the Future staff members and other scholars, discussing economic growth, developing management programs, and political and legal institutions designed to protect environmental quality.

EPILEPSY HANDBOOK—Louis D. Boshes and Frederic A. Gibbs—Thomas, C. C., 1972, 2nd ed., 196 p., illus., \$11.75. Incorporates new information of the last decade concerning the diagnosis and treatment of convulsive and nonconvulsive forms of epilepsy.

FIREWORKS: Principles and Practice—Ronald Lancaster, Takeo Shimizu and others—Chemical Pub. Co., 1972, 274 p., photo-

graphs, drawings, \$12. Deals with the history, pyrotechnical principles, materials and containers, the manufacture of specialties, fuses and smoke, and manufacturing processes of firework compositions.

FOSSILS: A Study in Evolution—J. O. I. Spoczynski—Rowan & Littlefield, 1972, 208 p., 15 plates, drawings by Melchior Spoczynski, glossary, \$8. Outlines in detail and traces the significance of the fossil record, shows how it acts as a map recording the main line of evolution on earth, the same pattern in widely divergent branches, and parallel evolutionary patterns in fossils from the Old and New World.

FUTURE ENVIRONMENTS OF NORTH AMERICA: Transformation of a Continent—F. Frazer Darling and John P. Milton, Eds.—Natural Hist. Press, 1972, 767 p., diagrams, \$12.95; paper, \$5.95. Record of a Conference examining preservation of habitats, regional development, economic patterns and processes, social cultural purposes, and trends in conservation practices.

IGNITION! An Informal History of Liquid Rocket Propellants—John D. Clark—Rutgers Univ. Press, 1972, 214 p., illus., \$10. Pieces together for both general reader and professional engineer the recent history of liquid propellant research and the development of liquid rocket propellants. The reader learns about brilliantly conceived programs as well as about blind alleys of research.

INQUIRY INTO SCIENCE: Its Domain and Limits—Richard Schlegel—Doubleday, 1972, 108 p., illus., \$4.95. Physicist's discussion of the never-finished quality of science, why science does have definite limitations, yet also unending possibilities related to the nature of the universe itself.

INVISIBLE COLLEGES: Diffusion of Knowledge in Scientific Communities—Diana Crane—Univ. of Chicago Press, 213 p., diagrams, tables, \$9. Deals with the social organization of research areas, the diffusion of basic science ideas, interactions between members of the scientific community, and the ways in which productive scientists set priorities and attract students and other scientists to their area of research.

INTRODUCTION TO GEOMORPHOLOGY—Alistair F. Pitty—Methuen (Barnes & Noble), 1972, 526 p., drawings, \$16; paper, \$8. Discusses the nature and basic postulates of geomorphology; landforms and structure; the physical, chemical and biological basis of geomorphological processes; interrelationships between processes and landforms; and stages in the evolution of landforms.

MODEL BUILDING IN SOCIOLOGY—Peter Abell—Schocken Bks., 1972, 252 p., diagrams, \$12. Draws on both statistics and philosophy of science to construct a logical framework from units of analysis to concepts, convert concepts into variables, relate variables in propositions, and propositions in axiomatized models.

NIGHTWATCHMEN OF BUSH AND PLAIN: Australian Owls and Owl-like Birds—David Fleay—Taplinger, 1972, 163 p., color plates, photographs, maps, \$8.50. The result of 40 years of field work, studying and photographing the life cycles of these nocturnal birds.

ORGANIC REACTIONS IN STEROID CHEMISTRY, Vols. I and II—John Fried and John A. Edwards, Eds.—Van Nostrand Reinhold, 1972, 510 p., 464 p., diagrams, \$26, \$24; \$45 for 2-vol. set. Critical review of both theoretical and experimental aspects of some of the most important synthetically useful transformations in steroid chemistry. From reductions of steroids by metal-ammonia solutions to ring contractions.

A SILKWORM IS BORN—Ann Stepp—Sterling Pub. Co., 1972, 96 p., 60 photographs, \$3.50. Describes and shows in progressive close-ups each stage of the silkworm's growth, cocoon production and its processing by man.

films OF THE WEEK

THE NEW SOUTH. 16mm, b&w, sound, 58 min. Author Pat Watters gathers opinions of black and white Georgia citizens in this documentary examining changing social and economic conditions in the South. Topics covered include racism, pollution, education, black electoral struggles and poverty. The film finds the South experiencing many of the problems thought of as "Northern." Industry is polluting the air and water, and people are being forced from rural areas into cities where they are unable to earn a decent wage. Students explain their opinions about school integration, and John Lewis, a founder of SNCC, addresses the issues and explains voter registration. Audience: secondary, college, adult. Purchase \$265 or rental \$13.50 from Audio-Visual Center, Dept. SN, Indiana University, Bloomington, Ind. 47401.

SCIENCE AND FORESIGHT. 16mm, b&w, sound, 25 min. Examines one of the most serious problems of our times: how to minimize the harmful effects of scientific and technological progress. It shows how biological and chemical research has produced sprays which destroy pests and plant diseases, but which also destroy useful insects and are injurious to animals and humans. Many similar examples are cited. They will make the student aware that scientific discoveries do not exist in a vacuum, but can affect the well-being of society for bad and for good. And that ways must be found to foresee and control their consequences. Audience: high school, college, adult. Purchase \$200 or rental \$20 from Time-Life Films, Dept. SN, 43 W. 16th St., New York, N.Y. 10011.

SKYLAB. 16mm, color, sound, 27 min. NASA will launch its first manned space laboratory—SKYLAB—in 1973. Three 3-man crews will live and work in this laboratory for periods of up to 56 days. The film shows the major objectives of the mission, its principal components and features, the four launches involved, and a few of the scientific investigations that will be performed which illustrate their type and scope. The data collected from over 50 experiments will be furnished to the scientists who conceived them and who will interpret the results. Experiments include biomedical studies, mass-measuring devices, studies of weightlessness on small animals and individual human cells, of solar phenomena, materials processing, flame propagation, and earth sensors for use in surveying the earth's resources. Audience: general. Purchase \$109.50 from National Audiovisual Center, National Archives and Records Service, Washington, D.C. 20409 or free loan information from NASA Film Library, National Audiovisual Center (gsa), Washington, D.C. 20409.

THINGS WORTH SAVING. 16mm, color, sound, 14 min. Explores the potential of large-scale resource recovery from America's growing volume of municipal solid waste—trash and garbage. While limited quantities of consumer products in today's solid waste stream are being recycled through voluntary centers cooperating with industry, future systems will mechanically separate valuable resources for recycling—aluminum, steel, glass and paper—to reduce the solid waste load. The residue following separation offers promise as a fuel for heat and electrical systems. Audience: schools and civic groups. Free loan to schools and civic groups from National Center for Resource Recovery, Dept. SN, 1211 Connecticut Ave., N.W., Washington, D.C. 20036.

Listing is for readers' information of new 16mm and 8mm films on science, engineering, medicine and agriculture for professional, student and general audiences. For further information on purchase, rental or free loan, write to distributor.