

# BOOKS

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**AMERICAN SPIDERS**—Willis J. Gertsch—Van Nos Reinhold, 2nd ed., 1979, 274 p., color and b&w illus., \$24.95. This beautifully illustrated natural history of the American spider focuses on their numbers and kinds, morphology, life histories and behavior, describes their great diversity in appearance and habits, and points up many of the striking peculiarities of these solitary, predaceous animals.

**ANALYTICAL ARCHAEOLOGY**—David L. Clarke, revised by Bob Chapman—Columbia U Pr, 2nd ed., 1978, 526 p., illus., \$25. To this pioneer work on archaeological methodology published in 1968, new material and illustrations have been added and the text shortened and clarified for this edition.

**ANNUAL REVIEW OF PSYCHOLOGY**, Vol 30—Mark R. Rosenzweig and Lyman W. Porter, Eds.—Annual Reviews, 1979, 687 p., \$17. The year 1979 is considered by many to be the centenary of psychology's emergence as a separate discipline. The occasion is marked in this volume with a prefatory chapter by Jean Piaget.

**ARTHROPOD PHYLOGENY**—A. P. Gupta, Ed.—Van Nos Reinhold, 1979, 762 p., illus., \$32.50. Thirteen experts in the field provide diverse avenues for approaching the controversial subject of the mono- or polyphyletic origin of arthropods.

**THE CHILDHOOD EMOTIONAL PATTERN IN MARRIAGE**—Leon J. Saul—Van Nos Reinhold, 1979, 452 p., \$15.95. Demonstrates how childhood patterns are repeated in wedlock, tells how to uncover these conflicts and provides clinical strategies for coping with these unconscious conflicts that can destroy marriage.

**THE EARTH'S CHANGING SURFACE**—Michael J. Bradshaw et al.—Wiley, 1978, 336 p., color and b&w illus., paper, \$14.95. Looks at the form or shape of earth's surface features, together with the underlying geological structures, and investigates the processes acting on the earth's surface.

**ENERGY DICTIONARY**—V. Daniel Hunt—Van Nos Reinhold, 1979, 518 p., illus., \$22.50. An illustrated professional-level dictionary that provides an up-to-date, concise compilation of the salient terms associated with the broad field of energy.

**GEOHERMAL ENERGY: Its Past, Present and Future Contributions to the Energy Needs of Man**—H. Christopher H. Armstead—Wiley, 1978, 357 p., illus., \$27.50. For the scientist whose activities have not before been slanted toward the geothermal aspects of his own discipline but who wants a broad idea of what geothermal energy is.

**HONEY BEE PESTS, PREDATORS, AND DISEASES**—Roger A. Morse, Ed.—Cornell U Pr, 1978, 430 p., illus., \$27.50. Describes the symptoms and causes of bee diseases and the behavior of bee pests and predators. Methods of prevention and control of predators and diseases are presented. An extensive list of references is included.

**ICE AGES: Solving the Mystery**—John Imbrie and Katherine Palmer Imbrie—Enslow Pubs, 1979, 224 p., illus., \$12.95. Explains the causes of ice ages, gives the history of this recent discovery, tells of the outstanding scientists who have been involved in the study of the ice ages and predicts when the next ice age will occur.

**INSECTS, THE CREEPING CONQUERORS: And Human History**—Carson I. A. Ritchie—Nelson, 1979, 139 p., illus., \$7.95. Written by a historian to explore the effect that insects have had on human history. Insects here include creatures that were regarded as insects before the time of scientific classification, such as spiders and leeches.

**INTERACTIVE COMPUTER GRAPHICS IN SCIENCE TEACHING**—John McKenzie, Ed.—Wiley, 1978, 247 p., illus., \$25. Discusses such topics as product design and development, hardware and software for computer-assisted learning, applications for physics, chemistry and biology teaching and evaluation of CAL.

**LASER SAFETY HANDBOOK**—Alex Malloy and Leon Chabot—Van Nos Reinhold, 1978, 353 p., illus., \$22.50. A broad survey of the numerous considerations that affect laser safety. Discusses the nature of the laser beam hazard and the biological effects of laser radiation. Detailed solutions are given to typical laser safety problems, along with the literature of laser safety, congressional laws and government standards and regulations.

**LIFE ON MARS**—David L. Chandler—Dutton, 1979, 212 p., illus., \$9.95. Using data from the Viking mission, a science writer presents the case for the existence of life on Mars—past, present and future.

**LOST LANDS AND FORGOTTEN PEOPLE**—James Cornell—Sterling, 1978, 224 p., illus., \$6.95. Tells of famous lost civilizations worldwide from prehistoric man in Africa to the Indian civilizations existing in America before the arrival of Columbus.

**MEDICINES FROM THE EARTH: A Guide to Healing Plants**—William A. R. Thomson, Ed.—McGraw, 1978, 208 p., color and b&w illus., \$29.95. Examines the world's 250 most important medicinal plants, including their origins, properties and uses. Beautifully illustrated.

**MESSAGES FROM THE STARS: Communication and Contact with Extraterrestrial Life**—Ian Ridpath—Har-Row, 1978, 241 p., illus., \$10. Tells the story of the search for life in space and the scientists involved.

**THE NATURE OF THE PHYSICAL UNIVERSE**—Douglas Huff and Omer Prewett, Eds.—Wiley, 1979, 140 p., illus., \$17.95. Papers by six outstanding scientists that discuss present concepts of elementary particle theory, the origin of life and limits of the universe's material resources and the nature and limits of the scientific enterprise.

**PERSONAL COMPUTING: Hardware and Software Basics**—Raymond P. Capece, Ed.—McGraw, 1979, 266 p., illus., \$14.95. This practical guide features articles selected from leading electronics publications. It provides detailed coverage of the principles of using a personal computer, including such subjects as recently developed hardware for use in the home, acquiring microcomputer skills, the novice and computer arithmetic and designing with microprocessors.

**PHYSICIAN'S HANDBOOK**—Marcus A. Krupp et al.—Lange, 19th ed., 1979, 758 p., illus., paper, \$9. Revised every three years, this handbook is intended to be of practical value in the daily practice and study of medicine, as well as in nursing and other fields related to medicine and health education.

**PROTOSTARS & PLANETS: Studies of Star Formation and of the Origin of the Solar System**—Tom Gehrels, Ed.—U of Ariz Pr, 1978, 756 p., illus., \$17.50. The purpose of this book is to develop the interface between studies of star formation and those of the origin of the solar system.

**SANITATION IN DEVELOPING COUNTRIES**—Arnold Pacey, Ed.—Wiley, 1978, 238 p., illus., \$25. Nonconventional techniques that are suitable for developing and tropical countries trying to provide sanitation and prevent the spread of excreta-related diseases.

**SCIENCE, CURRICULUM, AND LIBERAL EDUCATION: Selected Essays**—Joseph J. Schwab, edited by Ian Westbury and Neil J. Wilkof—U of Chicago Pr, 1978, 394 p., \$24. Explores the foundations of the whole educational experience and offers a rationale for a new kind of humane and liberal education.

**SNAKE SECRETS**—J. M. Roever—Walker & Co, 1979, 155 p., illus., \$7.95. A simple science book about snakes, their biology and behavior, owning a pet snake, rare and endangered snake species. Includes an information guide and checklist for North American snakes and a bibliography.

**STILL A LOT OF LIVING: Coping with Cancer**—Robert O. Beatty with his family—Macmillan, 1978, 196 p., \$8.95. A handbook written by a cancer patient, an assistant secretary of HEW, and his family that offers advice on how to cope with the severe physical and emotional traumas caused by this devastating disease.

**SUFFER THE CHILDREN: The Story of Thalidomide**—The Insight Team of the Sunday Times of London—Viking Pr, 1979, 309 p., \$12.95. A report of this major drug disaster: its victims—both children and families—their legal difficulties, and the important political and social issues concerning the role of the press, government and business when public safety is at stake.

**TEACHING YOUR DOWN'S SYNDROME INFANT: A Guide for Parents**—Marci J. Hanson—Univ Park, 1979, 221 p., illus., paper, \$12.95. A manual designed to be used by parents or by professionals working with parents. The teaching programs given are for the developmentally young child from birth to approximately two years of age.

**TOWARD A SOLAR CIVILIZATION**—Robert H. Williams, Ed.—MIT Pr, 1978, 251 p., illus., \$12.50. These papers were prepared by specialists and policy analysts for a solar energy series of the BULLETIN OF THE ATOMIC SCIENTISTS (1975 to 1977). One of the important messages conveyed by these papers is that there would be a rich diversity of technologies in a solar energy powered economy.

**VOLCANOES**—M. B. Lambert—U of Wash Pr, 1978, 64 p., illus., \$10.95. A well-illustrated introduction to volcanoes: what they are, what causes them, the products derived from them and their impact on society and the environment.

**WEATHER WATCH: How to Make the Most of America's Changing Weather**—Harold W. Bernard, Jr.—Walker & Co, 1979, 196 p., charts and graphs, \$9.95. Outlooks for average conditions during the next 30 years are given, along with a comparison of how, and how much, those conditions might differ from what we consider as "normal." Suggestions are made as to how changing conditions may affect our pocketbooks and our lifestyles.

**YOUR GENES AND YOUR DESTINY: A New Look at a Longer Life When Heart Disease, High Blood Pressure, Diabetes or Obesity is a Family Affair**—Augusta Greenblatt and I. J. Greenblatt—Bobbs, 1979, 223 p., \$8.95. An attempt to show that the genetic contribution alone is not human destiny. Recognition of the specific gene-environmental interrelation in a given disease may make it possible to change an unfavorable outcome through a healthier lifestyle, diet or certain medicines, particularly if practiced early in life.