

# BOOKS

BOOKS is an editorial service for readers' information. To order any book listed or any U.S. book in print please remit retail price, plus 25c handling charge for each book to **BOOK ORDER SERVICE**, Science News, 1719 N Street, N.W., Washington, D.C. 20036. All books sent postpaid.

**ADVENTURES OF A MATHEMATICIAN**—S. M. Ulam—Scribner, 1976, 328 p., photographs, drawings, \$14.95. Autobiographical reminiscences going back to childhood and student days in Poland, working years at Princeton and Harvard, life among the physicists at Los Alamos during the war, and more recent reflections on mathematics, mathematicians and physicists.

**AN AGE OF FISHES:** The Development of the Most Successful Vertebrate—Joy O. I. Spoczynska—Scribner, 1976, 152 p., illus. by Melchior Spoczynski, \$10. In readable narrative style ichthyologist traces the development of fishes whose adaptability has enabled them to colonize almost every stretch of water on earth. Glossary included.

**ANIMAL MIGRATION AND NAVIGATION**—Philip Street—Scribner 1976, 144 p., drawings, \$8.95. Describes in nontechnical language the migratory sense mechanisms of animals; fish, insect and bird navigation; including navigation using the earth's magnetic field.

**BEHAVIOR MODIFICATION AND FAMILIES**—Eric J. Mash, Leo A. Hamerlynck and Lee C. Handy, Eds.—Brunner/Mazel, 1976, 382 p., \$13.50. Papers highlight conceptual and research developments in applying behavioral analysis and modification also to normal families, single-parent, commune and other family systems.

**CLINICAL TOXICOLOGY OF COMMERCIAL PRODUCTS:** Acute Poisoning—Robert E. Gosselin, M.D. et al.—Williams & Wilkins, 1976, 4th ed., 1,766 p., illus., tables, \$54. To assist physician, information is organized in seven color-coded sections: First aid and general emergency treatment, ingredients index, therapeutics index, supportive treatment, trade name index, general formulations, and manufacturers' names and addresses.

**CLOCKWORK:** Life in and Outside an American Factory—Richard Balzer—Doubleday, 1976, 346 p., photographs, \$10. A study of the human interactions, frustration, satisfaction, personal rebellion and general accommodation of the blue-collar worker at his job, explored through interviews, observation and analysis in a Western Electric plant.

**THE FORCE OF KNOWLEDGE:** The Scientific Dimension of Society—John Ziman—Cambridge U Pr, 1976, 384 p., photographs, illus., diagrams, tables, \$15.95. Generously illustrated survey, summarizes in broad outline the historical development of scientific research as a profession, the advent of Big Science, the economics of R&D, war and science, and the moral dilemmas of social responsibility in science.

**FORECASTS, FAMINES AND FREEZES:** Climate and Man's Future—John Gribbin—Walker, 1976, 140 p., diagrams, \$8.95. The former geophysics editor of NATURE examines the global dimensions of climatic change, shows how the climate is changing and why, and describes research done in the application of forecasting techniques.

**THE POCKET ENCYCLOPEDIA OF DOGS**—Ivan Swedrup—Macmillan, 1976, 252 p., illus. in color by Studio Frank/Erik O. Stövlings, \$6.95. Describes and illustrates some 184 breeds from around the world. Tells about selecting, training, and taking care of the dog you have chosen.

**THE POLITICS OF SPACE:** A Comparison of the Soviet and American Space Programs—William H. Schauer—Holmes & Meier, 1976, 325 p., \$24.50. Fully annotated study analyzes the organization of the Soviet space program, military operations, motivations and goals, policies associated with Soviet space program, planetary programs, international cooperation in exploring outer space, and practical applications of the Soviet space flight activities.

**THE POVERTY OF POWER:** Energy and the Economic Crisis—Barry Commoner—Knopf, 1976, 314 p., \$10. First gives a thorough assessment of power resources, including discussion of thermodynamics, fossil fuels, nuclear power, and the sun; then looks critically at the energy budget, the uses of power, and the U.S. economic policy in regard to power.

**PSYCHIATRY AND MYSTICISM**—Stanley R. Dean, M.D., Ed.—Nelson-Hall, 1976, 446 p., color plates, \$15. Metapsychiatry is a developing branch of psychiatry. This book is outcome of three multidisciplinary panel-symposia in which researchers are attempting to authenticate the validity of psychic phenomena on the basis of logic, common sense and professional responsibility.

**THE PSYCHOLOGY OF MATHEMATICAL ABILITIES IN SCHOOLCHILDREN**—V. A. Krutetskii, transl. from Russian by Joan Teller; Jeremy Kilpatrick and Izaak Wirszup, Eds.—U of Chicago Pr, 1976, 433 p., diagrams, tables, \$22. Monograph presents results of a 12-year research program investigating the structure of mathematical problem solving by administering tests with ingenious experimental problems devised by the author.

**THE QUALITY OF AMERICAN LIFE:** Perceptions, Evaluations and Satisfaction—Angus Campbell, Philip E. Converse and Willard L. Rodgers—Russell Sage, 1976, 583 p., diagrams, tables, \$15. Major sociological study, assesses the variance in satisfaction with the experience of life in U.S. population, both positive and negative, mainly in terms of satisfaction of needs.

**THE REBIRTH OF COSMOLOGY**—Jacques Merleau-Ponty and Bruno Morando, transl. from French by Helen Weaver—Knopf, 1976, 316 p., diagrams, \$12.50. Philosopher and astronomer present in a parallel three-part exposition the philosophical and the scientific accounts of the cosmology of the ancients, the classical concept of the universe and its phenomena, and the modern conception of the universe.

**THE ROCKET'S RED GLARE**—Wernher von Braun and Frederick I. Ordway III—Anchor/Doubleday, 1976, 230 p., color plates, b&w photographs, drawings, \$9.95. Traces the development of rocketry from antiquity to modern times, describes the varied uses of rockets and the different types.

**SCIENCE FROM YOUR AIRPLANE WINDOW**—Elizabeth A. Wood—Dover, 1976, 2nd rev. ed., 248 p., photographs, drawings by Frank M. Thayer, paper, \$3. Reprint (1968), explains the things that happen during a plane ride and relates them to the principles of science, beginning with takeoff, coastlines, rock structures, light and clouds, and ending with night flying and landing.

**SISTER KENNY:** The Woman Who Challenged the Doctors—Victor Cohn—U of Minn Pr, 1976, 302 p., \$16.50. Biography of the Australian-born nurse whose techniques for successfully combatting the crippling effects of polio had met strong resistance from the medical profession.

**A SURVEY OF SARDIS AND THE MAJOR MONUMENTS OUTSIDE THE CITY WALLS**—George M. A. Hanfmann and Jane C. Waldbaum, Eds.—Harvard U Pr, 1976, 9x12, 206 p., 436 illus., maps, \$32.50. First of the final reports on the work of the Archaeological exploration of Sardis from 1958 to 1973. Treats history of Sardis, topography, the Artemis temple, and Roman baths.

**TAKE CARE OF YOURSELF:** A Consumer's Guide to Medical Care—Donald M. Vickery, M.D. and James F. Fries, M.D.—A-W, 1976, 285 p., diagrams, \$9.95; paper, \$5.95. Doctors provide charts for self-diagnosis and home treatment information for 68 of the most common medical problems—from sore throats to sprained ankles.

**THE TRUTH ABOUT FIBER IN YOUR FOOD**—Lawrence Galton, introd. by Denis P. Burkitt—Crown, 1976, 246 p., tables, \$8.95. Narrative account of how the evidence was traced that led to findings about the need of fiber in nutrition. Lists calorie and fiber content of most foods, includes high-fiber recipes.

**THE USES OF ENCHANTMENT:** The Meaning and Importance of Fairy Tales—Bruno Bettelheim—Knopf, 1976, 342 p., \$12.50. Eminent child psychologist reveals the inimitable importance of the great fairy tales; by examining the real content of the stories he shows how they educate, support and liberate the emotions of young children.

**VARIATION, SENESCENCE AND NEOPLASIA IN CULTURE SOMATIC CELLS**—John W. Littlefield—Harvard U Pr, 1976, 175 p., photographs, diagrams, \$8.95. Monograph studies variation in animal cells, the relationship between the overcoming of senescence, the appearance of heteroploidy, and the acquisition of neo-plastic qualities.

**THE WEATHER MACHINE**—Nigel Calder—Viking Pr, 1976, 144 p., color plates, photographs, diagrams, paper, \$4.95. Reprint (1974), explains how the weather works, how it changes; deals with causes and effects, and the threat of ice.

**WEBSTER'S COLLEGIATE THESAURUS**—Mairé Weir Kay, Ed.—Merriam, 1976, 976 p., thumb-indexed, \$8.95. Contains more than 100,000 synonyms, idiomatic equivalents, related and contrasted words, antonyms, usage samples and concise definitions. Alphabetical organization throughout makes all material readily available.

**WORK, CULTURE AND SOCIETY IN INDUSTRIALIZING AMERICA:** Essays in American Working-Class and Social History—Herbert G. Gutman—Knopf, 1976, 372 p., \$12.50. Collection of ground-breaking essays and papers analyzing trends of social forces at work in the American labor movement of the late 19th and early 20th centuries.

**A WORLD OF SCARCITIES:** Critical Issues in Public Policy—David Novick with others—Halsted Pr, 1976, 204 p., tables, \$19. Presents detailed and up-to-date analyses of the growing shortages of raw materials, their supply and demand, and economic policies in regard to oil, aluminum, timber, zinc, copper, lead, ferroalloys and fertilizer.