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COVER: The New Mexico dawn illuminates a few of the antennas belonging to the Very Large Array interferometer as they stand on the Plains of San Augustin. The recently completed VLA is intended to be one kind of new beginning in radio astronomy. It provides comprehensive high-resolution maps of celestial radio sources that were unavailable before. See p. 122. (Photo: National Radio Astronomy Observatory)

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BOOKS

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THE AMATEUR NATURALIST'S HANDBOOK—Vinson Brown. A revised and expanded edition of this classic book "for all who like the out-of-doors and would like to know more about the interesting things they see." The preface to this edition includes the caution to amateur naturalists that ecological concerns must be considered when making collections of animals and plants. P-H, 1980, rev. ed., 420 p., illus., \$15.95, paper, \$6.95.

AMERICA'S ENERGY FAMINE: Its Cause and Cure—Ruth Sheldon Knowles. A report of how energy development and use has made us a great nation, what our technical achievements and political failures have been, how we became so dependent on foreign oil, how we can reconcile the environment-energy conflict, what we need to do to achieve energy self-sufficiency and the time table that will be required to do so. U of Okla Pr, 1980, 351 p., \$14.95.

CURRENT MEDICAL DIAGNOSIS & TREATMENT 1981—Marcus A. Krupp and Milton J. Chatton, Eds. Intended to serve the practicing physician as a useful desk reference on widely accepted techniques currently available for medical diagnosis and treatment. Lange, 1981, 1100 p., illus., paper, \$21.

EARTHLIKE PLANETS: Surfaces of Mercury, Venus, Earth, Moon, Mars—Bruce Murray, Michael C. Malin and Ronald Greeley. With the explosion of planetary information new insights are developing that link earth with the origin and evolution of the other four planetary bodies of the inner solar system. Outlines for college undergraduates and other nonspecialists this new knowledge of the earth and its kindred planetary bodies, especially their surface features, processes and histories. WH Freeman, 1981, 387 p., color/b&w illus., \$24.95, paper, \$14.95.

EBLA: An Empire Rediscovered—Paolo Matthiae, translated by Christopher Holme. The story of one of the greatest discoveries of modern archaeology — at Tell Mardikh, Syria. The finds at Ebla have revealed a new language, a new history and a new culture. Originally published in Italian in 1977. Doubleday, 1981, 237 p., illus., \$14.95.

FARMING THE WATERS—Peter R. Limburg. Describes aquaculture, concentrating on those animals and plants that are raised for food or for industrial products. Suggestions are given for the do-it-yourselfer interested in raising eatable fish or earthworms. A bibliography and material sources are included. Beaufort Bks (Scribner), 1980, 223 p., illus., \$10.95.

FINDING BIRDS AROUND THE WORLD—Peter Alden and John Gooders, foreword by Roger Tory Peterson. Describes 111 areas—cities and refuges from the Arctic tundra to tropical jungles to South Island, New Zealand—for birdwatching. A description, map and checklist of species are provided for each site. Cross-references for the names of each species listed make it easy to use local field guides. HM, 1981, 683 p., illus., \$17.95.

GEMMOLOGISTS' COMPENDIUM, Sixth Edition—Robert Webster, revised by E. Allan Jobbins. A glossary of gemstones and the terms used in connection with them, together with tables of essential information for gem identification. Van Nos Reinhold, 1980, 240 p., color/b&w illus., \$14.95.

HEALTH EFFECTS OF FOSSIL FUEL BURNING: Assessment and Mitigation—Richard Wilson et al. Discusses efforts to distinguish which of the many emitted pollutants cause adverse health effects and how we can describe them numerically. Ballinger, 1980, 392 p., charts & graphs, \$35 (See SN: 2/14/81, p. 102).

HEALTH SCIENCES INFORMATION SOURCES—Ching-Chih Chen. Intended as a reference guide for health sciences librarians and as a handy reference for physicians, allied health professionals and students in all fields of the health sciences. Contains more than 4,000 entries covering 24 different types of sources and includes listings of both primary and secondary literature. MIT Pr, 1981, 767 p., \$50.

LIGHTNING AND ITS SPECTRUM: An Atlas of Photographs—Leon E. Salanave. Spectacular photographs with detailed captions that describe and explain the phenomena photographed. U of Ariz Pr, 1980, 136 p., color/b&w illus., \$25.

MEDICAL CONSEQUENCES OF ALCOHOL ABUSE—P.M.S. Clark and L.J. Kricka. Describes the causes of drinking problems, the organic and psychiatric diseases related to alcohol abuse and the treatment and rehabilitation of the alcoholic. Wiley, 1980, 282 p., charts and graphs, \$97.95.

MEET DR. FRANKLIN—Roy N. Lokken, Ed. Introduces the reader to many aspects of Dr. Franklin's multifaceted career. Some of these essays were contained in an earlier edition with the same title; this volume, published to honor the 275th anniversary of Franklin's birthday, January 17, 1981, includes much new material. Franklin Inst Pr, 1981, 288 p., paper, \$20.

THE QUICHÉ MAYAS OF UTATLÁN: The Evolution of a Highland Guatemala Kingdom—Robert M. Carmack. Tells the story of a people, who from their political, trade, military and religious center at Utatlán, controlled much of what is now Guatemala. An anthropologist recreates the setting of the empire at Utatlán, describes the collapse of the empire at the hands of the Spaniards and discusses traditional regions where some of the ancient Quiché practices survive today. U of Okla Pr, 1981, 435 p., illus., \$24.95.

SCIENCE IN CONTEMPORARY CHINA—Leo A. Orleans, Ed. A survey of Chinese science—28 papers by American scientists describing science in China in the late 1970s. The natural and social sciences with several areas of technology are covered with a brief history of the individual discipline, an account of current research, a description of relevant research centers, scientific journals and an assessment of the subject's importance within China's developmental priorities. Stanford U Pr, 1980, 599 p., \$35.

SILICON CHIPS AND YOU: The Magical Mineral in Your Telephone, Calculator, Toys, Automobile, Hospital, Air Conditioning, Factory, Furnace, Sewing Machine, and Countless Other Future Inventions—C.D. Renmore. Introduces the layman to these incredible little flakes of silicon. Tells how they were developed, how they are made and applications now and in the future. Beaufort Bks (Scribner), 1980, 144 p., \$8.95.

VOLCANOES—Robert Decker and Barbara Decker. An introduction to the nature and power of these dramatic phenomena. Provides examples of the three major volcanic types related to plate tectonics—rift, subduction and hot spot volcanoes. WH Freeman, 1981, 244 p., illus., \$17.95, paper, \$8.95.

WINDPOWER: A Handbook on Wind Energy Conversion Systems—V. Daniel Hunt. Provides a comprehensive collection and synthesis of windpower information that explores the achievements, problems and future potential of this renewable energy resource. Van Nos Reinhold, 1981, 610 p., illus., \$39.50.