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CLIMATIC CHANGE — John Gribbin, Ed. — Cambridge U Pr, 1978, 280 p., illus., \$37.50, paper, \$11.95. An overview of the basics of climatic change. Up-to-date thinking and background information are provided by contributors from a number of different countries.

THE CONSTRUCTION OF MODERN SCIENCE: Mechanisms and Mechanics — Richard S. Westfall — Cambridge U Pr, 1977, 171 p., illus., \$12.95, paper, \$5.95. This book, which deals with the history of science in the 17th century, was originally published in 1971.

THE PENGUIN DICTIONARY OF BIOLOGY — M. Abercrombie et al — Viking Pr, 1977, 311 p., drawings, \$12.95. From tens of thousands of biological terms, 3,000 of the more commonly used terms were selected for inclusion. Based on the sixth paperback edition, copyrighted 1973.

SEED PATHOLOGY, 2 Volumes — Paul Neergaard — Wiley, 1977, 1187 p., illus., \$97.50. Intended as a comprehensive reference work on seed-borne diseases, their detection, evaluation and control, as well as a text covering the principles of seed pathology for use at the university level. Extensive glossary and references.

THEORETICAL PRINCIPLES IN ASTROPHYSICS AND RELATIVITY — Norman R. Lebovitz et al, Eds. — U of Chicago Pr, 1978, 258 p., illus., \$23. These papers, delivered by scientists from a number of different countries at a symposium in 1975 honoring S. Chandrasekhar, review current ideas in general relativity, theoretical astrophysics and the area of their overlap.

WERNHER VON BRAUN — Erik Bergaust — National Space Inst (Stackpole), 1978, 589 p., illus., \$13.95. A biographical profile of the father of modern space flight, with emphasis on recent space achievements.

SOLAR ENERGY

Books of special interest not included in SCIENCE NEWS Solar issue, April 22, 1978. The books marked with an asterisk (*) may be ordered through the Book Order Service. Addresses for books to be ordered directly from the publisher are given in the listing.

***DIRECT USE OF THE SUN'S ENERGY** — Farrington Daniels — Ballantine, 1974, 271 p., illus., paper, \$1.95. Originally published in 1964. Provides a general introduction to solar energy.

INFORMAL DIRECTORY OF THE ORGANIZATION AND PEOPLE INVOLVED IN THE SOLAR HEATING OF BUILDINGS — W. A. Shurcliff — published by author, 19 Appleton St., Cambridge, MA 02138, 1976, 178 p., paper, \$9.00. Institutions and individuals involved in solar heating of buildings. Main emphasis is United States, but some foreign groups are included.

OVERCOMING LEGAL UNCERTAINTIES ABOUT USE OF SOLAR ENERGY SYSTEMS — William A. Thomas et al — American Bar Foundation, 1155 E. 60th St., Chicago, IL 60637, 1978, 80 p., paper, \$5. An introduction to the legal issues that may be encountered as this new technology is developed.

***SOLAR ENERGY: Technology and Applications** — J. Richard Williams — Ann Arbor Science, 1977, rev. ed., 185 p., photographs, diagrams, tables, \$9.95; paper, \$6.95. Succinct, clearly written, incorporates new data throughout. Includes 12-page table of "degree dates" indicating specific local conditions.

***SOLAR ENERGY AND BUILDING** — S. V. Szokolay — Halsted Pr, 2nd ed., 1977, 174 p., illus., \$18.50. In this new edition the author has added the important developments in this rapidly expanding field since the original publication in 1974. A new section includes a country-by-country survey of recent developments.

***THE SOLAR ENERGY TIMETABLE** — Denis Hayes — Worldwatch Inst, Paper #19, April 1978, 40 p., paper, \$2. A detailed global solar plan of action for making the transition to solar-powered economy. Five-sixths of the anticipated world energy budget can be met with solar energy by 2025, according to the author.

***THE SOLAR GREENHOUSE BOOK** — James C. McCullagh, Ed. — Rodale Pr, 1978, 328 p., illus., paper, \$8.95. Explores essential design features of solar greenhouses, including the collector, insulation, storage and glazing; provides construction details and discusses plant production in these energy-saving structures.

***SOLAR HEATING DESIGN: By the f-Chart Method** — William A. Beckman et al — Wiley, 1977, 200 p., charts & diagrams, \$14.95. Concerned with the selection of the most economical sizes of the solar collector, storage tank and the associated heat exchangers, which, in conjunction with an auxiliary furnace, will supply the entire heating load at the lowest possible cost.

SOLAR ORIENTATION IN HOME DESIGN: Council Notes, Vol 2, No 2, Fall 1977 — Seichi Konzo and Wayne L. Shick — Small Homes Council-Building Research Council, University of Illinois, 1 East Saint Mary's Rd., Champaign, IL 61820, 8 p., illus., 25¢. Discusses the placement of a house on a site in order to obtain the benefits of sunlight. This requires a knowledge of the angles of sunlight at different times of the day and season. Reprint of a 1946 publication.

STATE SOLAR LEGISLATION — National Solar Heating and Cooling Information Center, P.O. Box 1607, Rockville, MD 20850, 1978, 8 p., free upon request. Lists state solar legislation on tax incentives, solar access, building codes and solar equipment standards regulation currently in effect.

***SUN/EARTH: How to Use Solar and Climatic Energies** — Richard L. Crowther et al — Scribner, 1977, 232 p., illus., paper, \$8.95. A unique survey of architecture and its relation to the natural environment. Presents many concepts that are cost effective today for the utilization of free natural energy sources in homes and other buildings. An annotated bibliography is included.

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by Samuel Ruben