

Jan F. Kreider, Charles J. Hoogendoorn,
and Frank Kreith

SOLAR DESIGN

Components, Systems, Economics



Solar Design Components Systems Economics

Mervyn Richardson



Solar Design Components Systems Economics:

Solar Design Jan F. Kreider, Charles J. Hoogendoorn, Frank Kreith, 1988-11-01 **Medium and High Temperature** Jan Kreider, 2012-12-02 Medium and High Temperature Solar Processes discusses the principles and economic viability of medium and high temperature solar processes This book is organized into seven chapters that focus on the second law of thermodynamics and its use in matching solar collection methods to thermal processes It also provides general design guidelines for small and intermediate scale applications of solar processes The opening chapter presents an overview of energy use patterns in the United States and of the various solar thermal processes considered in the book The concepts of economics of solar systems and possible environmental impacts are also summarized Chapter 2 deals with the quantity geographic availability and quality of solar radiation with a particular emphasis on beam or direct radiation since it has the highest thermodynamic availability and is used by most elevated temperature collectors This chapter also describes the trigonometry of various solar tracking modes and optical properties of materials Chapter 3 considers selected topics on thermodynamics and heat transfer including various heat engine designs and their first and second law efficiencies radiation heat transfer and the properties of selective surfaces usable at high temperature Chapter 4 covers the components and systems for medium temperature processes such as concentrating collectors thermal storage heat exchangers and energy transport systems Chapter 5 treats systems for power production shaft power industrial process heat and total energy Chapter 6 presents engineering design data for high temperature collectors and their use in solar furnaces central solar power plants distributed power plants and solar thermionics The concluding chapter addresses the economics of the foregoing systems with an emphasis on methods and principles of analysis Risk reduction Mervyn Richardson, 2002-09-11 Concerned with the need to reduce chemical risks this text also covers related biological and physical risks Risk reduction has an important economic role not least in developing countries Many of the contributors are from developing countries and indicate the problems and some of the solutions their countries will need to adopt during their process of reconstruction development and recovery The text discusses the decision making process involving the political socioeconomic engineering and natural sciences so as to develop analyze and compare regulatory options It considers how such measured decision making enables the selection of optimal responses to achieve safety from perceived hazards **Energy Research Abstracts** ,1978 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Small Business Sourcebook** ,1996 A guide to the information services and sources provided to 100 types of small business by associations consultants educational programs franchisers

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