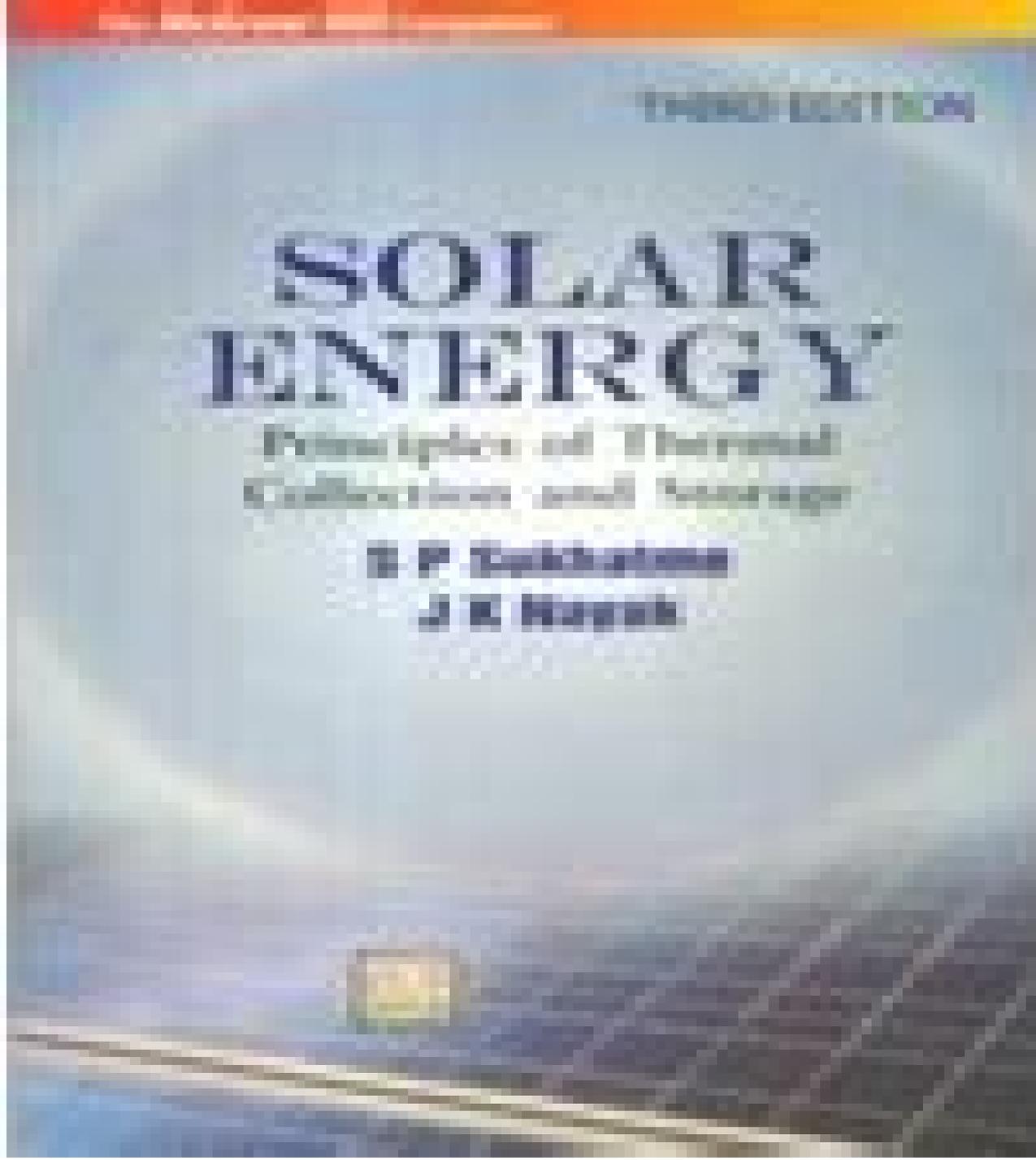


THIRD EDITION

SOLAR ENERGY

Principles and Design of
Collectors and Storage

J. P. Duffie
J. A. Duffie



Solar Energy Principles Of Thermal Collection And Storage 3e

**University of Virginia. Department of
Mechanical and Aerospace
Engineering**

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Directory American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1976 **Solar Thermal Energy** Gary W. Elworthy, 2009 *Handbook Of Solar Thermal Technologies: Concentrating Solar Power And Fuels (In 3 Volumes)*, 2022-08-11

The three volume handbook showcases the state of the art in the use of concentrated sunlight to produce electricity industrial process heat renewable fuels including hydrogen and low carbon synthesis gas and valuable chemical commodities The handbook illustrates the value and diversity of applications for concentrating solar power to contribute to the expanding decarbonization of multiple cross cutting energy sectors

Volume 1 Concentrating Solar Thermal Power provides an overview of key technologies principles and challenges of concentrating solar power CSP as well as the use of concentrating solar thermal for process heating and district markets The ten chapters of this volume provide the reader with the technical background on the solar resource for concentrating solar thermal the principles and design of concentrating optics and descriptions of state of the art and emerging solar collector and receiver technologies thermal storage and thermal to electric conversion and power cycles for CSP It also contains a comprehensive summary of operations and maintenance requirements for CSP plants and commercial CSP plants and markets around the world

Volume 2 Solar Thermochemical Processes and Products covers the use of concentrated solar radiation as the heat source to drive endothermic chemical reactions to produce renewable fuels and valuable chemical commodities equivalently storing solar energy in chemical bonds The thermodynamic underpinnings of a number of approaches to produce fuel and results of demonstrations of solar thermochemical reactors for these processes at prototype scale are presented Processes presented include thermochemical metal oxide reduction oxidation cycles to split water and carbon dioxide solar chemical looping reformation of methane to produce synthesis gas high temperature electrochemistry and gasification of biomass Research on the thermochemical storage for CSP and high temperature production of cement and ammonia to illustrate the use concentrated solar energy to produce valuable chemical products are also included

Volume 3 contains reprinted archival papers to support and supplement the material in Volumes 1 and 2 These papers provide background information on the economics and alternative use cases of CSP not covered in Volume 1 and expand on the material related to the chapter topics presented in Volume 2 Potential commercialization such as prototype and demonstration projects are highlighted The papers are intended as a starting point for a more in depth study of the topics

Solar Thermal Energy Storage H.P. Garg, S.C. Mullick, Vijay K. Bhargava, 1985-02-28

Energy Storage not only plays an important role in conserving the energy but also improves the performance and reliability of a wide range of energy systems Energy storage leads to saving of premium fuels and makes the system more cost effective by reducing the wastage of energy In most systems there is a mismatch between the energy supply and energy demand The energy storage can even out this imbalance and thereby help in savings of capital costs Energy storage is all the more important where the energy source is intermittent such as Solar Energy The use of intermittent energy sources is likely to grow If more and more solar energy is to be used for domestic and industrial

applications then energy storage is very crucial. If no storage is used in solar energy systems then the major part of the energy demand will be met by the back up or auxiliary energy and therefore the so called annual solar load fraction will be very low. In case of solar energy both short term and long term energy storage systems can be used which can adjust the phase difference between solar energy supply and energy demand and can match seasonal demands to the solar availability respectively. Thermal energy storage can lead to capital cost savings, fuel savings and fuel substitution in many application areas. Developing an optimum thermal storage system is as important an area of research as developing an alternative source of energy.

Annual collection and storage of solar energy for the heating of buildings University of Virginia.
Department of Mechanical and Aerospace Engineering, 1977

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