

Solar thermal power plants, due to their capacity for large-scale generation of electricity and the possible integration of thermal storage devices and hybridization with backup fossil fuels, are ...

Abstract. The choice of heat transfer fluids (HTFs) significantly dictates the thermal efficiency of the solar power plant. Presently, molten salt is widely used choice owing ...

Types of Solar Power Plant . Following are the two types of large-scale solar power plants: Photovoltaic power plants; Concentrated solar power plants (CSP) or Solar thermal power plants. #1 Solar Photovoltaic ...

Overview. Editors: Spiros Alexopoulos, Soteris A. Kalogirou. Covers a wide range of technologies and applications that actively convert solar radiation into useful heat. Includes a glossary of key terms and definitions. Features peer-reviewed ...

This book explains the modelling and simulation of thermal power plants, and introduces readers to the equations needed to model a wide range of industrial energy processes. Also featuring ...

2 ???&#0183; Solar Thermal Technologies. Solar thermal technologies use solar collectors to harness solar radiation to generate thermal or electrical energy for use in residential, commercial, and ...

Finally, experimental and theoretical developments in the recently created field of solar driven chemistry (via thermal, quantum, or electrical excitation) are described. The contributions in this book are written by leading solar scientists ...

The book is divided into two sections. The first section (Chapters 2 to 7) presents the physical fundamentals of solar thermal energy usage, along with the necessary processes, methods, and models. The second section ...

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