

This paper deals with the design and configuration of an experimental thermal solar installation with parabolic trough collectors, adapted to a hotel complex in the south of ...

Challenges remain with reducing costs, optimizing the systems design, and increasing the performance and durability of the systems. This Special Issue on research on solar collectors presents some recent developments and studies on tracking-solar collectors for medium- to high-temperature applications, both line- and point-focus systems, conceived for the supply of heat ...

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Therefore, the objective of the present paper is to design a hotel enjoying the benefits of solar energy. The solar energy utilization can be beneficial in cooling and heating systems used in hotels and houses and it can highly save the energy consumption so that it reduces energy consumption by 0.5%. This review speaks about utilizing solar ...

Hotels consume the 15% of the total energy in the Balearic Islands. Data from 27 Hotels was studied in order to investigate the levels of energy consumption and sustainability taking into ...

2.1 A Standalone DPSC. In this section, we referred to DPSC, which is installed and operated independently as a standalone. The first design and study of such a collector was carried out by Assari et al. []. The collector consists of water pipes in the top section which used for heating water and a V- shaped air channels in the bottom which used for air heating (see Fig. 2).

Solar thermal collectors have to be mounted very close to the point of consumption - i.e., on the building itself - which stresses the urgency of the architectural integration issue. Starting from a definition of architectural integration quality and related criteria, this book is intended to help both architects and manufacturers improve ...

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