Egypt Solar Air Conditioning

In this thesis, a proposed strategy is developed and applied to a building existing in Egypt. This strategy is aiming to: improve the building energy efficiency, reduce the electrical energy consumption and ...

Consequently, this study was undertaken with the principal objective of examining the feasibility of substituting conventional electrical split air conditioning units with a solar-assisted ...

This paper examines the potential of utilizing solar absorption cooling systems in institutional buildings by presenting a case study of a proposed solar absorption cooling system for a ...

This study investigates the feasibility of implementing a solar-assisted adsorption chiller in an industrial building at the Oriental Weavers International factory located in 10th of Ramadan City, ...

To determine the success of a solar thermal air conditioning system, climate data was collected for Cairo, Egypt, between May and September 2023. Many factors affecting the performance of the ...

The objective of this research is to simulate a solar double-effect absorption air conditioning system in Cairo, so a detailed study on applying this system for the Cairo University Building...

This paper presents the design of new prototype of a solar adsorption refrigeration unit with certain specifications and requirements to be used as an air conditioning and refrigeration unit...

In this study, the performance of a single stage LiBr/H2O solar absorption cooling system was investigated under different a climate of Egypt. Four Egyptian cities with different climates were ...

Solutions span residential, commercial, and industrial applications, with growing focus on sustainability, smart automation, and renewable energy integration.

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