

Owing to its great potential for solar energy and uniquely low relative humidity, Tibet is an ideal region for the application of solar-air source heat pump (SASHP) heating systems. This ...

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Abstract The building parameters of Chinese solar greenhouse (CSG) directly affect the front roof lighting and indoor thermal environment. In order to obtain the optimal parameter combination, a ...

In order to overcome these problems, using a solar assisted air source heat pump (SAHP) system is a potential solution. On the one hand, both air and solar energy are renewable and ...

<p>The building parameters of Chinese solar greenhouse (CSG) directly affect the front roof lighting and indoor thermal environment. In order to obtain the optimal parameter combination, a building ...

This study investigated the performance of a solar-air source heat pump system for a building in the high-cold and high-altitude area of China. A simulation model was established and ...

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Energy management plan is utilized as an optimum strategy by using solar and wind energies, as a new preliminary implementation. The aim of the study is to create an optimum strategy ...

ABSTRACT This paper describes our work in using mathematical optimization to assist air cargo load planning for an air cargo company, one of the world's top 10 air cargo carriers. The airline handles ...

In this regard, an optimization plan is proposed, replacing the solar thermal module with a solar photovoltaic solar thermal module, and the terminal heating method is replaced by floor ...

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With the results collected from the Focus Group, the relevance of stakeholders and their behaviour towards the adoption of Virtual Design and Construction was validated. Finally, this thesis provides ...

In order to solve the problem that the traditional heat pump system in the cold area of North China cannot supply heat efficiently and stably, a novel solar-air source heat pump system is ...

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Abstract Integrating solar energy utilization into air source heat pump heating systems can effectively cut down on energy consumption. However, the complexity of coupled systems poses ...

This study proposed and optimized a collector-storage solar air heating system (CSSAHS) containing a dual-channel thermal storage unit (TSU) for building HRV preheating so as to ...



Optimization of air solar container construction plan

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