

Propose the design method of cavity masonry wall structure. Obtain the climate adaptation characteristics of the suitable structures. Significant energy saving compared with ...

searchers have created wall-mounted solar heating systems with chemical stability, liquidity preference, and high specific heat capacity for heat transport and storage [14,15].

This paper proposes a novel triple-skin BIPV/T system for rural residential buildings in north China. Firstly, the electrical performance of the proposed system was simulated using the System Advisor Model (SAM) from National Renewable Energy Laboratory (NREL).

This paper presents a novel polyhedral photovoltaic curtain wall that optimizes energy production in different climate zones across China. Results show that, in low-latitude regions, south-facing polyhedral photovoltaic curtain walls require larger opening angles of the upper inclined surfaces to achieve maximum efficiency, while ...

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Propose the design method of cavity masonry wall structure. Obtain the climate adaptation characteristics of the suitable structures. Significant energy saving compared with buildings with masonry walls. Air cavities can effectively improve the thermal performance of building envelope.

Wall-mounted solar chimneys use solar radiation to heat the air inside the chimney cavity and use thermal pressure to create natural convection. Applying this principle ...

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Wall-mounted solar chimneys use solar radiation to heat the air inside the chimney cavity and use thermal pressure to create natural convection. Applying this principle allows for the indoor ventilation of a building without energy consumption. However, in wall-mounted solar chimney designs, different air inlet and outlet design dimensions can ...

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Wall-mounted solar panels are usually less effective than roof-mounted systems because they often have a steeper angle, so they don't receive as much sunlight throughout the day. Roof-mounted solar panels are usually ...

This paper briefly summarized design principles and the development process of integration of solar collectors and building envelopes in China. Through analyzing the current situation of integrated positions, tilt angles and detailed conformation designs of solar...

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