

Can hollow-core slab buildings be equipped with photovoltaic power generation

In order to explore a reasonable type of solar pavement structure, a kind of rectangular hollow slab structure of light guide concrete with built in arch chamber, light guide bodies and...

This study illustrates the potential of integrating solar energy, IoT, and communication technologies into smart buildings, contributing to the global effort to reduce the ...

Several recent advancements in photovoltaic construction signal that energy-generating concrete could play a larger role in the future of architecture. Two cases in particular, stand out in their recent ...

To enhance the mechanical performance of the hollow panel structure, minimize its self-weight, and reduce the impact of self-shading to improve power generation efficiency, structural ...

The most common application of solar energy collection outside agriculture is solar water heating systems. This case study focuses on the design of a ground mounted PV solar panel foundation ...

In order to enhance the power output of the hollow slab structure of solar pavement and improve its convenience of slab preparation and paving, a three-layer integrated hollow slab...

Photovoltaic (PV) technology is an ideal solution for the electrical supply issues that trouble the current climate-change, carbon-intensive world of power generation. PV systems can generate electricity at ...

This study examines the applications of photovoltaic and solar thermal technologies in the field of architecture, demonstrating the huge potential of solar energy in building applications.

To develop a reasonable structure type of solar pavement, a kind of structure model of hollow slab was proposed for solar pavement based on light-guide concrete in this paper.

According to the dual functional requirements of traffic and power generation, a solar pavement self-compacting concrete hollow slab structure with a micro photovoltaic array is proposed.



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