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Title: Photovoltaic flexible bracket double-layer cable structure

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In this paper, the mechanical behavior of a single-cable structure is introduced, and the simplified analytical formulations for internal force and displacement are deduced based on the...

To study the structural response of prestressed double-layer cable flexible photovoltaic brackets under fluctuation wind loads, an analytical solution for cable horizontal tension without considering ...

This article provides a detailed comparison of the single-layer cable suspension structure and the double-layer cable truss structure in flexible solar mounting system, outlining their ...

To better understand the structural behavior and prevent potential failure, this study presents a simplified analytical model for the design of double-layer flexible cable photovoltaic ...

The suspension cable structure with a small rise-span ratio (less than  $1/30$ ) is adopted in the flexible photovoltaic support, and it has strong geometric nonlinearity.

In order to reduce the construction costs of the flexible photovoltaic support, a mathematical model for optimizing the initial structure's morphology is established according to the ...

Double-row flexible PV supports adopt prestressed cables and two rows of PV panels; thus, these supports have good terrain adaptability and power generation efficiency and have become a new ...

A certain photovoltaic power generation project adopts a double-layer cable flexible support structure, with the lower chord cable as the load-bearing cable and the upper chord cable as the stabilizing cable.

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