Flexible photovoltaic support cable tensioning

Taking a flexible PV bracket with a span of 30 m and a cable axial force of 75 kN as the research object, we investigate the variation patterns of the support cables and wind-resistant cables under ...

An engineering example of flexible photovoltaic support with a span of 15m is calculated and analyzed, and then compared with the finite element calculation results.

To improve the span and stiffness and widen the application scene of the flexible photovoltaic support system, a new type of three-dimensional cable-truss flexible photovoltaic support system is proposed ...

Based on the wind-induced vibration response characteristics of the photovoltaic array obtained in this study, it is proposed to install the connection cables between the different rows of the ...

The flexible photovoltaic support system can realize the large span of the suspension cable structure, reducing the amount of support steel and the number of support foundations, and greatly lowering ...

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 ...

The utility model provides a steel strand wires fastening system and flexible photovoltaic support, including ground tackle clamping piece, ground tackle sleeve pipe, bolted connection...

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

The reduction in the deflection-span ratio or the rise-span ratio requires greater initial tension from the component cables and stability cables. The research results are of great ...

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