

In this study, the wind-induced vibration characteristics and the suppression measures of a 35-meter-span cable-truss support photovoltaic module system array are studied. Firstly, based on ...

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 ...

In order to solve the technical problems, the utility model provides a cable end fixing structure of a sloping field flexible photovoltaic bracket, which has large contact area between an...

It is a photovoltaic support system supported by suspension structure. The suspension structure consists of a series of tensioned cables as the main load-bearing components.

In this paper, the new flexible photovoltaic support structure is summarized, and the related research articles on the structural design model and wind-induced effect of the flexible ...

The new technology of flexible suspension cable support was independently developed by Solar First Group and was granted a "Utility Model Patent" in May 2022. Its invention patent has entered the ...

Abstract The flexible support photovoltaic module structure system has advantages such as large span, fast construction speed, and suitability for complex environments. However, this kind ...

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 ...

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.

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