

Calculation of flexible photovoltaic bracket with suspension cable

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Taking a photovoltaic power plant as an example, a large-span suspension photovoltaic bracket is established in accordance with the requirements of the code and optimized.

The calculation formula in the paper is simple and accurate, which can provide a reference for static analysis and structural design of flexible photovoltaic support.

When designing flexible photovoltaic supports, the requirements of structural stability, weather resistance, lightweight and strength must be comprehensively considered to ...

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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 ...

This study conducted wind tunnel tests on the full aeroelastic model of flexible photovoltaic supports, synchronously testing the displacement and cable force of single-layer cable flexible ...

This article investigates a flexible photovoltaic bracket's response to wind vibration. A finite element model is established using SAP2000 software for time course analysis.

A comparison was made in Table 2 of the vertical vibration dynamic characteristics of the flexible PV support structure, which were obtained through finite element model calculations and ...

In this paper, we mainly consider the parametric analysis of the disturbance of the flexible photovoltaic (PV) support structure under two kinds of wind loads, namely, mean ...

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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 ...

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