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Title: Cable structure flexible photovoltaic support system

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What is flexible photovoltaic support system?

The flexible photovoltaic support system is one of the systems that have been proposed to support photovoltaic modules with wide application potential in recent years. It has the advantages of large span, fast construction speed, and can adapt to complex environments.

How many types of photovoltaic supports are there?

Two types of photovoltaic supports. The flexible photovoltaic support structure consists of two parts: the flexible cable system and the lower support system.

What are the advantages of flexible support photovoltaic module structure systems?

Since 2000, flexible support photovoltaic module structure systems have been widely used because of their advantages such as short construction period, large span, good economic performance, and suitability for various complex terrains.

Does cable-truss support photovoltaic module structure have good wind resistance?

In this paper, a new type of cable-truss support photovoltaic module structure system with excellent wind resistance is proposed. Firstly, the superiority of the new system is proved by the aspects of static and dynamic performance. Then, the wind-vibration response is analyzed by the wind tunnel test.

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 of system has ...

In solar plant construction, selecting the appropriate support structure is crucial. This article provides a detailed comparison of the single-layer cable suspension structure and the double ...

Then, the advantages of the three-dimensional cable-truss flexible photovoltaic support system are illustrated from the aspects of natural frequency, mode, and mechanical properties ...

In recent years, a flexible photovoltaic support structure composed of a pre-stressed cable system has been widely used [1] ~ [6], and its span is generally 10m~30m.

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 ...

Czaloun (2018) proposed a supporting cable structure for PV modules, which reduces the foundation to only four columns and four foundations. These systems have the advantages of light weight, strong ...

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 ...

However, this type of support system still has some problems, such as low stiffness, limited span, and insufficient wind resistance. To improve the span and stiffness and widen the ...

The flexible photovoltaic support structure consists of two parts: the flexible cable system and the lower support system. The flexible cable system is composed of a load-bearing cable, a ...

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