

What is a new cable-supported photovoltaic system?

A new cable-supported photovoltaic system is proposed. Long span, light weight, strong load capacity, and adaptability to complex terrains. The nonlinear stiffness of the new cable-supported photovoltaic system is revealed. The failure mode of the new structure is discussed in detail.

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What factors affect the bearing capacity of new cable-supported photovoltaic modules?

The pretension and diameter of the cables are the most important factors of the ultimate bearing capacity of the new cable-supported PV system, while the tilt angle and row spacing have little effect on the mechanical characteristics of the new type of cable-supported photovoltaic modules.

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Zayin Single Solar Cable Entry Gland Waterproof Solar Photovoltaic ABS Plastic Bracket Curved Cable Connector for RV roof Waterproof, Boats, Yacht, Roofs (1 Hole Rectangular Black 2pcs) ...

Support inclined strut (cable) PV module Figure 1. The structural layout of flexible photovoltaic support (single span) The main load borne by photovoltaic modules and support is wind load ...

Cable-supported photovoltaic systems (CSPSs) are a new technology for supporting structures that have broad application prospects owing to their cost-effectiveness, light weight, large span, high headroom, few pile ...

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 temperature decrease ...

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