

# Flexible photovoltaic bracket wind vibration response



## Overview

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**Abstract:** 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.

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### WIND-INDUCED RESPONSE AND VIBRATION SUPPRESSION

The second and third rows of PV modules on the windward side are prone to wake-induced vibration at low wind speed (8-15 m/s). And this kind of structure is prone to flutter when

### Static and wind-induced vibration response of large-span flexible

A large-span flexible photovoltaic (PV) support with saddle-shaped cable net supporting is proposed. It can surpass the current flexible PV support span up to 100 m level. Firstly, the components of the



### FLEXIBLE Definition & Meaning

flexible applies to something which may or may not be resilient or elastic but which can be bent or folded without breaking.

### Static and Dynamic Response Analysis of Flexible Photovoltaic

An analysis of the wind-induced vibration responses of the flexible PV support structures was conducted. The results indicated that the mid-span displacements and the axial forces in the



**flexible**



## **FLEXIBLE , English meaning**

FLEXIBLE definition: 1. able to change or be changed easily according to the situation: 2. able to bend or to be bent. Learn more.

That may be adapted or accommodated; capable of receiving different forms, or of being applied to a variety of uses; plastic: as, a flexible language; a flexible text.



## **Title of paper**

The wind-induced response and vibration modes of the flexible PV modules support structures with different parameters were investigated by using wind tunnel based on elastic test model.

## **What does FLEXible mean?**

Flexible refers to the ability or quality of easily adapting or adjusting to different conditions, changes, or situations without being negatively affected. It can also refer to something that is easily bent or

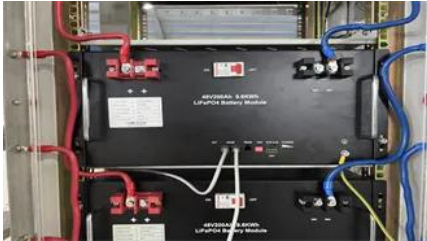


## **[Research on wind interference effect and wind-induced](#)**

The aim is to provide a highly accurate scientific basis for evaluating wind vibration coefficients in practical engineering applications and to support the wind

## **[FLEXIBLE Definition & Meaning Dictionary](#)**

FLEXIBLE definition: capable of being bent, usually without breaking; easily bent. See examples of flexible used in a sentence.



## **FLEXIBLE definition and meaning , Collins English Dictionary**

Something or someone that is flexible is able to change easily and adapt to different conditions and circumstances as they occur.

## [Flexible Definition & Meaning , Britannica Dictionary](#)

Whatever you want to do is fine with me. I'm flexible. She's been exercising to improve her flexibility.



## **Flexible**

Capable of being shaped, bent, or drawn out, as by hammering or pressure: ductile, flexile, flexuous, malleable, moldable, plastic, pliable, pliant, supple, workable.

## [Flexible Definition & Meaning , YourDictionary](#)

Flexible definition: Able to change to cope with variable circumstances.



## **flexible**

Flexible, limber, pliant refer to that which bends easily. Flexible refers to that which is capable of



## Analysis of the response of wind-induced vibrations on flexible

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being bent and adds sometimes the idea of compressibility or expansibility: a flexible piece of rubber hose.



## Investigation on wind-induced responses of flexible photovoltaic

This study develops an efficient fluid-structure interaction (FSI) analysis framework to investigate the wind-induced vibration response of flexible photovoltaic support structures.

## Comparison and mechanism analysis of wind-induced vibration

Investigated structures' wind-induced vibration response evolution laws and mechanisms of single-layer and double-layer cable systems. Results reveal that flexible PV structures exhibit



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