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Title: Earthquake-resistant photovoltaic cabinets for oil platforms

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Are solar panels earthquake-resistant?

For seismic design, analysis is relatively straightforward for positively attached systems to the ground or roof structure. This design methodology for assessing the structural adequacy of separate solar arrays under seismic load is studied. Earthquake-resistant construction is meant to safeguard PV systems from earthquakes.

Do ground-mounted photovoltaic (PV) modules have seismic performance?

Policies and ethics This paper presents the seismic performance of ground-mounted photovoltaic (PV) modules. The seismic performance of the PV module is evaluated for sets of near-field (NF) and far-field (FF) ground motion records.

Can performance-based earthquake engineering be used for fixed offshore platforms?

Nezamian and Morgan (2014) discussed the applicability of Performance-Based Earthquake Engineering (PBEE) for fixed offshore platforms. They compared seismic design provisions of ISO 19901-2, (2004) and API RP-2A WSD (2000) from the PBEE point of view.

How is the seismic performance of a PV module evaluated?

The seismic performance of the PV module is evaluated for sets of near-field (NF) and far-field (FF) ground motion records. The selected ground motions are matched to the target spectra in IS-1893 (Part-I):2016 for different soil conditions and seismic intensities. The varied capacity and supporting module systems are considered in the analysis.

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Fixed platforms are frequently used in the utilization of ocean oil universally considering that their lifetime is relatively long. Regarding their life span, these offshore ...

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