

Earthquake dynamic rupture simulations are crucial for physics-based seismic hazard assessment. However, due to its intricate dynamics spanning vast spatial and temporal scales, these ...

Pan P, Wang H, et al. Experimental study on slotted RC wall with steel energy dissipation links for seismic protection of buildings [J]. *Engineering Structures*, 2017, 145: 1-11.

The support of solar photovoltaic board is used for installing photovoltaic module and frame thereof, and current support is relatively poor in performance in the aspect of the...

This study demonstrates that integrating photovoltaic systems into super high-rise buildings can enhance their earthquake resilience by contributing to better stress dis-tribution, reduced ...

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 ...

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 ...

Our structural support systems include seismic bracing for MEP stability and solar mounting frames for rooftop and utility-scale PV installations, ensuring safety, durability, and ease of installation.

Based on a typical photovoltaic support failure case, this study involved detailed research on the design load and joint connection measures of photovoltaic supports.

Wang, Z., Pan, W.\* and Zhang, Y. (2021) Parametric study on module wall-core system of concrete modular high-rises considering the influence of vertical inter-module connections.

The seismic performance of curtain walls (CWs) in MiC is closely linked to their functional integrity and occupant safety during seismic events. This paper presents a series of quasi-static ...

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