

Can artificial intelligence improve building plasticity during earthquakes?

However, these parameters are often not optimal because they do not take into account the extensive plasticity expected in building structures during earthquakes. To address this issue, an artificial intelligence (AI)-assisted simulation-driven framework has been developed in this study.

How do I determine the optimal design parameters for earthquake-resistant design?

For each building, the optimal design parameters for earthquake-resistant design will be obtained through nonlinear numerical simulations under a set of ground motion records. A database containing pairs of design inputs and optimal design parameters for earthquake-resistant design will be created.

Is artificial neural network a viable earthquake-resistant design framework?

An artificial neural network (ANN) model was created, optimized, and trained using the created database. The developed ANN model was proved to have a good capability to yield the optimal PS with the majority of the absolute errors within 1%, which validates the feasibility of the AI-assisted simulation-driven earthquake-resistant design framework.

Can strong back improve building performance under strong earthquakes?

To improve the performance of building structures under strong earthquakes, the concept of strong back has been proposed by previous researchers, in which part of the building is intentionally designed to be stronger to remain essentially elastic under strong earthquakes.

Where is daqiuzhuang Culture Center?

The DQZ Culture Center is situated approximately 200 kilometers south of Beijing in northern China. A rural village in a desolated salty marshland only 30 years ago, Daqiuzhuang has grown from village to city rapidly due to its early investments in and production of the city's main commodity: steel.

How did daqiuzhuang grow from a village to a city?

A rural village in a desolated salty marshland only 30 years ago, Daqiuzhuang has grown from village to city rapidly due to its early investments in and production of the city's main commodity: steel.

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Photovoltaic flexible bracket is an emerging photovoltaic installation system, which is characterized by its flexibility and adaptability. Compared with traditional fixed photovoltaic brackets, flexible photovoltaic brackets can be flexibly adjusted according to terrain, lighting conditions, seasonal changes and other factors



Daqiuzhuang photovoltaic earthquake-resistant bracket retail

to maximize the power generation efficiency of ...

Earthquake-resistant design is a critical aspect of ensuring the safety and structural integrity of tall buildings in seismic-prone regions. As the world continues to witness devastating ...

The Badminton Center at 1600 Corporate Central Dr. in McKinney, Texas is a 23,841 SF facility that will house 16 badminton courts. Special consideration was given to the HVAC system design to ensure it ...

His professional expertise encompasses: Modelling, Monitoring, Model Calibration, Simulation, Seismic Protection, Seismic Retrofitting, Analysis and Performance Based Assessments for ...

[Sino-German Tianjin Daqiuzhuang Eco-city Park project won the bid] On August 6, 2021, China Railway Construction Bridge Bureau and China Railway Eighteenth Bureau welcome the Sino ...

Addressing the issue of structural material reduction, for the construction of an earthquake-resistant building (and, in a more advanced version, an earthquake resilient ...

At this time, photovoltaic equipment can provide power supply for the disaster area after the earthquake, ensure the smooth use of people's communication and lighting equipment, and ...

Advantages of earthquake-resistant photovoltaic supports compared to traditional supports, Corporate News, Home. About us. Corporate culture. Growth process. Organization ...

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Holm Architecture Office (HAO) and AI have been invited to create a proposal for the city of Daqiuzhuang in northern China. Sited in a newly developed part of the city, the ...

We are a physical factory specializing in the production of photovoltaic brackets, earthquake-resistant brackets, cable brackets, and punched C-shaped steel...

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The main products include photovoltaic fixed brackets, seasonal adjustable brackets, tracking brackets, distributed power station systems, photovoltaic carports, flexible brackets, BAPV, BIPV-photovoltaic building integrated systems, various photovoltaic bracket accessories (ground mounting bracket systems, roof mounting bracket systems, etc.), etc.

The AI-assisted simulation-driven earthquake-resistant design framework is proposed in this paper and is illustrated in Fig. 1. The ultimate objective of this framework is to ...

The installation selection of photovoltaic ground brackets is mainly based on factors such as the fixing method of the bracket, terrain requirements, material selection, and the weather resistance, strength, and stiffness of the bracket. First, there are many fixing methods, such as pile foundation method (direct burial method), concrete block weight method, pre-embedded method, ground ...

Hebei Hekang Metal Products Co., Ltd. is a domestic manufacturing enterprise specializing in the production and wholesale of earthquake resistant brackets, photovoltaic brackets, punched C ...

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