

Comparative Test of Seismic Resistance of Mobile Energy Storage Containers for Island Use

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Why is seismic risk assessment important for storage tanks?

Earthquakes, as a natural threat affecting all structures, also trigger events like fire and explosion in storage tanks. Therefore, the assessment of seismic risks for storage tanks, the prediction of damage, is crucial for both existing and newly constructed tanks.

What is seismic performance of industrial structures?

Seismic performances of industrial structures. Liquid storage tanks. Spherical shaped tanks. Horizontal-cylindrical tanks. Seismic fragility curves. Storage tanks are structures widely employed in various chemical and petroleum industries for the storage of liquids and gases.

Can energy-dissipating devices reduce seismic response to liquid storage tanks?

For seismic response mitigation of liquid storage tanks, some energy-dissipating devices have been proposed by researchers from the early research works in this field.

How does a tank model affect seismic response?

The numerical model examines the seismic responses of a tank model equipped with three control mechanisms; two base isolation mechanisms and a hybrid system. The model equipped with the hybrid system resulted in the least base shear of the tank and lower values of both accelerations and displacements.

In this study, the seismic performance and inelastic behavior of joints were investigated using the bracket thickness, depth, and stiffener of the ceiling-bracket-type ...

Using mobile battery storage to strengthen the distribution network's earthquake resilience. Compute the fragility curves of various building and their effect on the failure of ...

The container energy storage mainly consists of battery compartment and booster compartment, where the battery compartment plays a decisive role in the safety and reliability of the whole ...

In this study, the seismic performance and inelastic behavior of joints were investigated using the bracket thickness, depth, and stiffener ...

The proposed method has been highlighted as an efficient technique for calculating seismic forces for both

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fluid-filled horizontal cylindrical and spherical storage tanks.

Various energy-dissipating devices for seismic protection and vibration mitigation of fluid storage tanks have been investigated in the literature. Most of these devices are based ...

To perform our assessment, we deployed in tandem physical and numerical models that were developed using appropriate scaling for Newtonian systems that interact via frictional contact. ...

The occurrence of extreme disasters, such as seismic hazards, can significantly disrupt transportation and distribution networks (DNs), consequently impacting the post ...

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