

Energy Storage Container Seismic Resistance Customization





Overview

How can seismic analysis of liquid storage tanks be applied?

Thus, the seismic analysis of liquid storage tanks can be approached through two primary numerical modeling strategies: detailed fluid-structure interaction (FSI) analysis and the simplified added-mass method.

What are the challenges in seismic engineering of liquid storage tanks?

The analysis and design considerations for base uplift and overturning present significant challenges in seismic engineering of liquid storage tanks. Simplified analytical methods, such as those based on Ref. , provide a basis for estimating the extent of uplift and its effects on shell stresses.

Why is seismic design important for LNG storage systems?

The seismic design of specialized storage systems, including LNG tanks, is a critical aspect of international standards such as ISO 28460 , which govern the installation and equipment for liquefied natural gas in the petroleum and natural gas industries.

How effective is seismic protection for liquid storage tanks?

Seismic protection of liquid storage tanks has evolved significantly, with two main strategies emerging as particularly effective: base isolation and energy dissipation devices. The implementation of these protection systems has gained momentum following observations of tank damage in major earthquakes, such as the 2011 Tohoku event .



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