Earthquake-resistant energy storage containers for subway stations

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To achieve this goal, a series of finite element models of the soil-station system were developed and employed to investigate the impact of site type, seismic intensity, and ...

Recent research on the seismic response of assembled monolithic subway stations has unveiled critical insights that could reshape the construction and engineering sectors, ...

To demonstrate the proposed seismic resilience assessment framework for subway stations and analyze the effectiveness of the ...

Designing underground structures, especially road and rail networks, that are resilient to seismic events is a complex process. WSP ...

Specifically, this research aims to elucidate the consequences of seismic impact on subway stations in terms of evacuability, detailing the effort required for users located in ...

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To demonstrate the proposed seismic resilience assessment framework for subway stations and analyze the effectiveness of the seismic resilience improvement method, ...

Located in downtown Los Angeles, California, one of the most active seismic regions, the project underwent comprehensive seismic design for its underground structures in ...

In this article, we will explore the latest techniques and best practices for designing and constructing earthquake-resistant underground structures. The need for earthquake ...

The proposed framework can assist stakeholders of subway stations to systematically assess the functional performance of the system under different earthquake ...

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Our storage systems feature seismic-resistant, moment-resisting reinforcements, offering the strength and flexibility to evenly distribute seismic forces and absorb energy without collapsing.

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