



Recent Study on Seismic Performance of Building Structures

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Message from the Guest Editors

Earthquakes are one of the most destructive natural disasters and can cause large-scale loss of life and property. The buildings in regions with high seismic activity require careful design as they are more susceptible to earthquakes. The performance-based seismic design could effectively control the seismic performance of structures during earthquakes and could limit the damage and loss of the structures. Therefore, great attention has been paid to studying the seismic performance of building structures. The main aim of this Special Issue is to expound some key problems regarding the main theories, research contents and differences in current performance-based seismic design.

We welcome contributions that advance the state of the art of the addressed topics, including but not limited to the following fields:

Seismic assessment of building structures;

Computing in earthquake engineering;

Methods of seismic analysis;

Seismic risk analysis;

Engineering structure performance evaluation;

Strengthening and retrofitting of structures;

Experimental studies;

Analysis of case studies.



Editor-in-Chief

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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