

Seismic Vulnerability Assessment of Structures

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Message from the Guest Editor

Seismic resistance of building structures is always an important issue for countries locating at earthquake prone regions. Following the rapid development of engineering technologies, new seismic design, analysis, and retrofit methods have been proposed to capture and/or enhance the performances of building structures under earthquake ground motions. Reliable analysis and design approaches could be used to predict structural seismic capacities. Various damper devices and seismic isolators have been applied for better resistances against large earthquakes.

This Special Issue focuses on the seismic vulnerability assessment of any kind of building structures. The topics include analytical and numerical seismic vulnerability assessments for conventional building frames and building frames designed or retrofitted with structural dampers or isolators. This Special Issue aims at exchanging the ideas and knowledge on recent advances in practical assessment approaches for seismic vulnerability. Original contributions containing fundamental and practical studies, case studies, or state-of-the art reviews are welcomed to be submitted to this Special Issue.



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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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