

Seismic Design of Building Structures

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Message from the Guest Editor

Dear Colleagues,

Seismic events, whether they are catastrophic or of moderate intensity, are often associated with huge losses both economic and in terms of human life.

Not being able to control the occurrence of a natural catastrophic events, specific and reliable design methodologies should be used to reduce the vulnerability of buildings against earthquake and associated damage.

This Special Issue is dedicated to presenting current research on seismic design of buildings with special reference to both design of new structures and retrofit of existing buildings.

Contributions addressing design, assessment, numerical and experimental investigations, seismic hazard analyses and seismic loss estimation are welcome.

Dr. Silvia Costanzo

Guest Editor



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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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