

## Seismic Behaviour of Reinforced and Confined Masonry Buildings

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### Message from the Guest Editors

International seismic design codes authorize the construction of either **reinforced masonry (RM)** or **confined masonry (CM)** buildings for regions characterized by seismic hazards. Walls in RM buildings contain horizontal and vertical steel reinforcing bars, while CM buildings consist of masonry walls, enclosed by lightly reinforced horizontal and vertical reinforced concrete confining elements. RM and CM buildings have performed well in past earthquakes in various countries.

This Special Issue will provide an insight into state-of-the-art research studies and design approaches related to RM and CM structures subjected to earthquake effects. Potential topics include, but are not limited to, the following:

- Experimental studies;
- Numerical modelling and seismic analysis;
- Vulnerability and fragility;
- Evidence from past earthquakes;
- Design and construction challenges;
- Review of design code provisions.



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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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