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Research on the Seismic Design of Steel Frames

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Deadline for manuscript submissions:
closed (10 July 2025)

Message from the Guest Editors

Dear Colleagues,

Earthquakes have always been among the most dangerous natural calamities associated with human life and property protection. Some researchers will also pursue safe seismic design as a lifelong endeavor.

The 1994 Northridge earthquake in California profoundly affected the seismic design of steel frames, particularly the seismic design of beam-to-column connections.

In commemoration of the nearly 40th anniversary of the Northridge earthquake in the United States, we are launching this Special Issue to present the most recent research findings on the seismic design of steel frames.

All research and reviews on the seismic design of steel frames, including (but not limited to) experimental and numerical investigations, specification discussions, structural systems, connections and joints, and building retrofits, are welcome.

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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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