



Building Structures: Applications of Steel Structures in Seismic Engineering

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Message from the Guest Editors

Dear Colleagues,

Steel structures are widely used in engineering structures due to their great strength, low weight, high load-bearing capacity, and superior seismic performance, along with their environmental and economic benefits, making them one of the most important types of modern structures. In recent years, earthquake disasters have been frequent, and thus people began to focus on the seismic performance of steel structures, higher requirements were put forward regarding the strength and performance of steel structures, and gradually this has become a research hotspot. This Special Issue will focus on “Building Structures: Applications of Steel Structures in Seismic Engineering”, with papers that include but are not limited to experimental research, theoretical analysis, and finite element analysis.

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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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