

Special Issue

Buildings and Structures under Extreme Loads II

Message from the Guest Editors

Exceptional design loads on buildings and structures may have different causes, including high-strain natural hazards, man-made attacks, and accidents, as well as extreme operational conditions. These aspects are critical for specific structural typologies and/or material. In this regard, dedicated and refined methods are required for their design, analysis, and maintenance. Major challenges are related to their structural typology and material properties, with respect to the key features of the imposed design load. Further issues can be derived from the need for the mitigation or retrofit of existing structures, as well as from the optimal and safe design of innovative materials/systems. Finally, in some cases, no appropriate design recommendations are available, and thus experimental investigations have a key role within the overall process. In this Special Issue, original and high-quality contributions on the structural performance of buildings and structures (including the analysis at the material, component, or assembly level) under exceptional loads are sought. Both new design projects or the retrofit and mitigation of existing structures will be of interest for this issue.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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