



Buildings and Structures under Extreme Loads II

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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.

