

Special Issue

Advances in Failure of Structures – Material Characteristics and Loading Conditions

Message from the Guest Editors

This Special Issue addresses recent advances on the instability and failure features associated with a broad range of structural components. The focus areas are (but are not limited to) steel, concrete, timber, masonry, as well as composite structures subjected to a wide variety of loading circumstances (including static loading, earthquake-generated excitation, fire, wind, etc.) within different numerical, experimental, and hybrid research frameworks. The scope of this Special Issue encompasses the common issues around failure and instability analyses, nonlinear response, thin-walled structures, new materials and compositions in construction, timber and masonry composites, fibre-reinforced structures, pressurised and industrial structures, optimisation, sustainability, and environmental consideration in structures. Keywords

- recent advances in structural systems
- instability and failure
- steel, concrete, and composite structures
- stability and buckling
- numerical and experimental methodologies

Guest Editors

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Message from the Editor-in-Chief

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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