Special Issue

Advances in Design and Analysis of Asymmetric Structures

Message from the Guest Editors

Asymmetric structures that have various irregularities related to mass distribution, variations in structural stiffness, or geometric deviations come with numerous challenges in design and analysis compared to symmetric structures. In particular, asymmetric structures display complex dynamic behaviors due to significant torsional effects under earthquake and wind events. This Special Issue aims to provide a platform for advances in theories and methods for the design and analysis of asymmetric structures. Topics for submissions include, but are not limited to, the following:

- Nonlinear behavior of asymmetric structures;
- Smart materials for design of asymmetric structures;
- Empirical case studies on seismic performance of asymmetrical structures;
- Numerical simulation of torsional response using advanced computational methods;
- Resilience-based design strategies for asymmetrical structures;
- Structural control enhancing seismic resilience;
- Experimental and numerical investigations on seismic design.

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

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