



symmetry



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Symmetry/Asymmetry in Structural Engineering and Structural Mechanics

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Message from the Guest Editor

Dear Colleagues,

In civil engineering, some structures and construction possess some kind of symmetries and asymmetries, such as buildings, bridges, etc. The advantages of the symmetry and asymmetry of a structural system in simplifying the mathematical model to solve both the statics and dynamics problems are quite obvious. Additionally, the application of symmetry and asymmetry in the design and construction of civil structures can effectively lead to attractive architectural appearance and reduce the time cost. In the field of structural health monitoring (SHM), the complicated monitoring point arrangement can be simplified by making full use of the principles of symmetry and asymmetry. This Special Issue invites original technical papers that focus on the use of symmetry and asymmetry in structural engineering and structural mechanics.



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Special Issue



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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.

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