



Symmetry Methods in Mechanics of Materials

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Message from the Guest Editors

Dear Colleagues,

Symmetry methods play an important role in mechanics and materials as they may underline the mechanical, structural or material properties of solutions. For instance, most of the optimal designs in structural mechanics are often inspired by natural symmetry; this is evident in topology optimisation, meta-material construction, periodic and lattice structures, etc.

This Special Issue is devoted to the recent advances in structural mechanics and materials, with regard to the analysis of symmetries. Original contributions at both levels of modelling and experiments are welcome. The key topics of the issue include, but are not limited to:

1. Symmetry in additive manufacturing processes;
2. Symmetry in porous structures;
3. Symmetry in meta-materials design and manufacturing;
4. Symmetry in structural vibration;
5. Symmetry in structural architectures;
6. Symmetry in designing composite materials;
7. Symmetry in structural optimisation, etc.





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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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