

Special Issue

Recent Advances in the Study of Symmetry and Continuum Mechanics II

Message from the Guest Editor

Symmetry plays an important role in continuum mechanics as it may represent the crucial properties of material behavior as well as properties of solutions of corresponding boundary-value problems. For example, variational symmetries results in appearance of new conservative laws in continuum mechanics and mechanics of structures. The presented special issue is devoted to recent advances in continuum mechanics related to symmetries analysis. Among the topics of the issue are the following: 1) symmetry-based analysis of constitutive equations of complex materials including generalized media; 2) invariant properties of solutions of boundary-value problems; 3) variational symmetries and relative conservation laws followed from the Noether theorem; 4) anisotropic and composite materials and structures including metamaterials; 5) application of the local material symmetry group to formulation of reduced constitutive relations; 6) chirality in continuum mechanics; 7) any topics used the concept of symmetry in continuum mechanics.

Guest Editor

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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.

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