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Mechanics of Heterogeneous Solids and Structures

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Message from the Guest Editors

This Special Issue of *Symmetry* is dedicated to “Mechanics of Heterogeneous Solids and Structures”. The concept of “heterogeneous solids and structures” seems to be intuitively clear, involving, in particular, composite and discrete media, heterogeneous elastic and plastic structures, layered, reinforced, and perforated plates and shells, etc. Despite the wide variety of diverse problem formulations, they all have common features. As a rule, the domains of fast variation of sought-for solutions emerge along with the areas of smooth behavior. This naturally implies the implementation of powerful asymptotic methods, including homogenization, continualization, and multiple-scale techniques.

We equally expect contributions developing novel numerical approaches.

We look forward to receiving submissions reporting on advanced formulations concerned with the modeling of continuous and discrete heterogeneous solids and structures.



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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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