Special Issue

Advanced Theoretical and Computational Methods for Complex Materials and Structures (Volume 2)

Message from the Guest Editors

The widespread use of composite materials and structures in many fields of engineering and science has favored the development of advanced theoretical and computational methodologies with increased performance. Among the most commonly used innovative composites, there are functionally graded materials (FGMs), carbon nanotubes (CNTs), graphene nanoplatelets, metamaterials, and smart constituents. Studies on fiber-reinforced composites, FGMs, CNTs, and magnetostrictive and electrostrictive materials, as well as auxetic materials and angle-tow laminates, are welcome, exploring their static, dynamic, buckling and fracturing responses at different scales. Classical and nonclassical theories can be proposed together with multiscale approaches, homogenization techniques and different fracturing models. Contributions regarding theoretical, experimental and numerical aspects from scientists working in mathematics and mechanics, involving different industrial applications, are welcome.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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