

Special Issue

Editorial Board Members' Collection Series: Mechanical Analysis of Composite Materials

Message from the Guest Editors

Composite materials are critical in many applications, and they can replace metallic materials in many systems or goods. Their range of applications is very broad, from room temperature to very high temperatures, and in ambient or severe environments. The composites of interest here consist of a matrix (polymers, ceramics, including carbon, and metals) reinforced by continuous and long fibers (ceramic, carbon, vegetal, Kevlar, etc.). The large variety of possible combinations of matrix and fiber types allows for the design of composite materials tailored to application requirements and performances. Composite engineering provides materials with properties superior to the properties of constituents considered separately. Fiber-reinforced composites are heterogeneous and anisotropic materials. Mechanical analysis requires appropriate and specific approaches. Several issues are still unsolved, and questions are still open with a view to being able to properly characterize and safely predict the mechanical behavior and failure of components.

Guest Editors

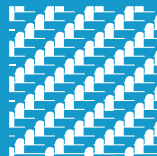
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