



Dynamic Behavior of Carbon Fiber Related Materials

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Message from the Guest Editors

The carbon-fiber related materials show asymmetric mechanical properties according to the direction of carbon-fiber and several multi-layered structures of carbon-fiber has been applied in industries according to the service loading condition. This topic focuses on the dynamic behavior of the carbon-fiber related materials for different service conditions, such as the environmental temperature, the spectral loading pattern – harmonic, random or sine-on-random, and can be extended every asymmetric material in a mechanical perspective. We are interesting to analyze the dynamic characteristics of carbon-fiber related materials with experimental consequences as well as the theoretical material modeling. We also encourage the monitoring methods of the asymmetric materials based on the mechanical nature of the responsible materials, i.e. heat transfer, thermal property, strain(or stress) or accumulation of fatigue quantity.





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