



Dynamic Behavior of Polymer Composite Materials and Structures

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Message from the Guest Editors

Polymer composite materials have been increasingly employed in a broad range of engineering fields, such as the automobile, aviation, aerospace, and defense industries, owing to their high specific stiffness and strength. In such applications, composite structures are vulnerable to various dynamic loads, including dropped tools, hailstones, windborne objects, bird strikes, runway debris, etc.

This Special Issue aims to provide a platform for researchers to share the latest results on the mechanical behavior of polymer composite materials under dynamic loading conditions involving a high strain rate, impact, blast, penetration, and shock response. New developments in experimental techniques, modeling approaches, diagnostics, and optimizations for the study of polymer composites in the dynamic regime are also of particular interest. Polymer composite materials of interest include, but are not limited to, fiber-reinforced polymer laminates, sandwich panels, lightweight cellular solids, bioinspired composite materials, 3D-printed composites, etc.





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