

Special Issue

Dynamic Behavior and Failure Analysis of Composites

Message from the Guest Editor

This Special Issue will focus on the dynamic response and failure of multilayer structures. Studies of the response of laminated composite structures, sandwich structures, laminated glass, and photovoltaic laminates subjected to blasts, impacts, and other types of dynamic loadings are of interest. Stresses determined on the macroscale (laminate level) are used to predict intra-ply damage and debonding between adjacent plies. The properties of a ply (mesoscale) including damage can be determined by an analysis at the micro-scale (diameter of one reinforcing fiber). Therefore, the analysis of such problems generally requires a multiscale progressive damage analysis. Contributions dealing with new plates and shell theories, constitutive equations, damage criteria, cohesive zone models, generalized elasticity theories, and numerical models are welcome.

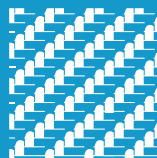
Guest Editor

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Deadline for manuscript submissions

closed (30 November 2021)



Journal of Composites Science

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.8



mdpi.com/si/57233

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