Special Issue

Impact Damage and Mechanical Analysis of Thin-Walled Composites

Message from the Guest Editor

Thin-walled structures and their behavior are quite well investigated, especially those made of orthotropic materials. This Special Issue is focused on finding and presenting the advantages and disadvantages of different types of laminates or functionally graded materials applied in thin-walled structures, which could appear in different parts of their life, from the manufacturing process through to their total failure or degradation. The results of theoretical, analytical, numerical or experimental investigation can be presented, as well as new developed methods allowing a better description of work of such a structure. The topics of interest include but are not limited to: - Buckling, postbuckling, load-carrying capacity, and failure of thin-walled laminate structures; - FRP or FML laminate tailoring; - Laminate structures under a low or high velocity impact load; - Influence of the manufacturing process on structure behavior under operation load; - Thin-walled laminate structure behavior under dynamic load; - Failure and crack-propagation in different types of laminates.

Guest Editor

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Deadline for manuscript submissions

closed (20 October 2021)

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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