Special Issue

Mechanics of Thin-Walled Structures and Other Lightweight Constructions

Message from the Guest Editor

The topic for this Special Issue is “Mechanics of Thin-Walled Structures and Other Lightweight Constructions.” Thin-walled and lightweight structures must provide operational demands and safety within a minimal weight. Typical structures would be made of thin load skins’ frames, stiffeners, and spars, all made of high strength and stiffness materials to comply with the desired minimal weight criteria. Although the topic was extensively presented in the literature, new and innovative studies on non-linear behavior as compared to their linear behavior started to be more and more present. The present Special Issue aims to provide a new platform for recent studies on the structural behavior of thin-walled and lightweight structures in their linear and non-linear regimes. These studies can present those structures' static and dynamic behavior, highlighting new numerical methods, finite element solutions, and experimental results.

Guest Editor

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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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