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Behavior of Metallic and Composite Structures (Second Volume)

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Deadline for manuscript
submissions:

closed (28 February 2021)

Message from the Guest Editors

The aim of this SI is to understand the basic principles of damage growth and fracture processes in advanced metallic and composite structures, including also structural joints. Today, it is widely recognized that important macroscopic properties, like macroscopic stiffness and strength, are governed by processes that occur at one to several scales below the level of observation. A thorough understanding of how these processes influence the reduction of stiffness and strength forms the key to the analysis of existing and the design of improved innovative structural elements.

The study of how these various length scales—nano, micro, meso—can be bridged or taken into account simultaneously in multiscale models is particularly attractive for composite materials and structural elements, since they have a well-defined structure at the above specified levels.





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Message from the Editor-in-Chief

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