



*materials*



*Special Issue Reprint*

## **Behavior of Metallic and Composite Structures (Third Volume)**

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Edited by  
Tomasz Sadowski  
Holm Altenbach

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This reprint focuses on understanding the basic principles of damage growth and fracture processes in advanced metallic and composite structures, including structural joints. Currently, 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 and design of existing and improved innovative structural elements.

The study of how these various length scales, nano-, micro-, and 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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