Special Issue

Fracture Mechanics of Metals

Message from the Guest Editors

This Special Issue is focused on recent developments in the fracture mechanics of metals. Fracture is the separation of an object or material into two or more pieces under the action of stress. The fracture of a solid usually occurs due to the development of certain displacement discontinuity surfaces within the solid. Fracture is categorized between ductile fracture, brittle fracture and ductile-to-brittle transition temperature.

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Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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