



Hardening Behavior of Deformed Steel and Alloys

Guest Editor:

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Message from the Guest Editor

This Special Issue will deal with:

Static and dynamic hardening behavior of materials;

Experimental techniques, methods, and diagnostics for constitutive response of hardening materials in the static and dynamic regime;

Hybrid experimental–computational methods to identify the hardening behavior of materials;

Evaluation of hardening behavior of materials in the forming process;

Strain-rate dependent tension–compression hardening behavior or repeated tension–compression behavior of metals;

Assessment of strain-rate-dependent crash worthiness of structures with hardening behavior;

Material and structural response to dynamic loading such as high strain-rate, impact, blast, penetration, shock response, and extreme conditions;

Ultra-high, high, or moderate strain-rate hardening behavior and ductile or brittle fracture of metals;

All experimental and theoretical approaches to hardening behavior of materials.

Understanding of Hardening behavior of materials is the first step toward analysis and assessment of fabrication and structures. Your contribution and support is indispensable for success of this special issue.





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Message from the Editorial Board

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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