



metals



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Advances in Acoustic Emission Testing of Metals and Alloys

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Message from the Guest Editors

Dear Colleagues,

Acoustic emission (AE) techniques have been successfully used as a non-destructive means for testing metallic materials and structures over the past 50 years. Driven by industrial demands, the AE technique has evolved as a powerful tool for integrity testing. With the advent of microelectronics, signal processing and information technologies, modern AE techniques have experienced rapid growth. In recent years, many publications have appeared, revisiting the classical topics of AE covering various aspects of foundations of AE phenomenon, understanding of which still leaves a lot to be desired. This Special Issue of *Metals* provides a platform for communication and exchange between AE professionals on AE basics and applications. We seek contributions covering a wide range of subjects related to AE phenomenon in metallic materials during their plastic deformation, degradation and fracture. We seek advances in theoretical and modelling studies serving as guides for data analysis by laboratory experimentalists and in-field practitioners. Experiences with AE signal processing, proven for materials testing and characterization, are also welcomed.



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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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