Special Issue

Thermography Techniques for Examination of Metals

Message from the Guest Editors

Non-destructive testing and evaluation (NDT&E) plays an increasing role in the modern industry. if compared to the traditional NDT&E approaches (such as X-ray, ultrasonic, and eddy current, etc.), thermography have advantages such as fast, safe, inexpensive, and large detection area. Recently thermography techniques expecially the active infrared thermography are extremely attractive to scientists and public. Thermography techniques have been widely used in aerospace, petrochemical, automotive and other fields, becoming a key way to solve some difficult engineering problems. This Special Issue is focused on nondestructive testing and evaluation (NDT&E) via midinfrared and far-infrared thermography. Both theoretical research and industrial application are welcome, which are within but not limited to the following fields:

- Multimode thermography techniques.
- Interaction between physical field and material.
- Applications in material evaluation field.
- Signal analysis and feature extraction algorithms.
- Advanced industrial applications
- Image processing.

Guest Editors

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Deadline for manuscript submissions

closed (20 August 2024)



Metals

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About the Journal

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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