Special Issue

Fatigue, Creep Behavior and Fracture Mechanics of Metals

Message from the Guest Editor

The comprehension of the fatigue, creep, and fracture behavior of metallic materials is fundamental in order to assess the reliability of structural components. In this field, research progress helps to improve technical problems and constitutes a direct contribution to the safety of society. This Special Issue intends to collect several articles on all the aspects that help to determine the failure of metallic materials. Research contributions and reviewer surveys on the identification, evaluation, and measurement of the damage process involving fatigue, creep, and fracture behavior, considering both a theoretical and/or an experimental approach, are welcome. Presentations of industrial cases illustrating the use of analytical, numerical, and experimental techniques for the study of the failure of metallic components in the automotive, aeronautical, and mechanical sector are also welcome.

Guest Editor

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Deadline for manuscript submissions

closed (20 August 2024)

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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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