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Mechanics, Fatigue and Fracture of Metallic Materials

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Message from the Guest Editor

Curiosity is the feature of humankind that pushes us to new unknown places; it causes a desire to learn unknown things. To meet these requirements and be able to break the limits, engineers and scientists design devices and machines to facilitate the conducting of research. Knowledge of materials, in particular fatigue and fracture mechanism, is necessary, and can be obtained from experiments. One of the main goals of materials research is to understand the nature of the behavior of materials subjected to various types of loads. Understanding the phenomena of failure allows scientists to improve mechanical properties using new manufacturing technologies, or by inventing new materials that meet the desired requirements. One of the broadest class of structural materials is the metallic materials group. These materials are of great interest to science, especially because of their applications, and permanently expands the spectrum of scientific research into the processes of fatigue failure mechanisms. The Special Issue is devoted to the development of experimental and theoretical methods of evaluation and description behavior of metallic materials subjected to fatigue loads.



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Special Issue



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