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Finite Element Analysis and Fracture Control in Steels and Non-ferrous Alloys

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Message from the Guest Editors

Dear Colleagues,

The integrity and reliability of materials are paramount in numerous engineering applications, from aerospace to civil infrastructure. Steels and non-ferrous alloys are versatile in their applications because of their mechanical properties. Ensuring these materials perform optimally under diverse conditions necessitates a deep understanding of their behaviour under loadings leading to structural failure.

The Special Issue ‘Finite Element Analysis and Fracture Control in Steels and Non-ferrous Alloys’ failure and fracturing, especially steels and non-ferrous alloys that outline current research techniques for comprehending fracture onset, propagation, and control.

This Special Issue concerns all research areas that focus on analyzing, modelling, and describing the behavior of materials and structures undergoing a fatal loading. We invite you to propose papers on topics related to the theory of fracture mechanics, experimental testing that accompanies the application of numerical modelling in fracture analysis, further modeling of the failure occurrence and propagation mechanisms.

Dr. Teresa Fraś

Dr. Piotr Pawłowski

Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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