



Thermomechanical Processing of Steels

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Message from the Guest Editors

The achievement of mechanical properties and process stability during a Thermomechanical Controlled Process (TMCP), depend on the chemical composition, process parameter control and optimization, as well as post-forming cooling strategy and thermal treatments. Therefore, this Special Issue would like to combine contributions on different fields, topics, steel grades and forming technologies applying TMCP processes to steels. Papers regarding forming technologies, such as rolling, forging, hot-stamping, etc., using microalloyed, medium/high Mn or alternative high alloyed grades will be welcome. New technologies, such as near-net-shape production, innovative cooling strategies, such as direct quenching, quenching and partitioning or additional controlled cooling strategies will be the base for current and future new product developments.

In addition to the metallurgical peculiarities and relationships between chemical composition, process and final properties, the impact of advanced characterization techniques and innovative modelling strategies provides new tools to achieve further deployment of the TMCP technologies.





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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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