



FaSTeP: Faultless Steel Production and Manufacturing

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Message from the Guest Editor

Dear Colleagues,

Steel condition monitoring is a key issue in all steel structures. However, the main issue arises in the steel production or manufacturing lines. Keeping the mechanical and other properties of steel within certain limits, then steel producers, manufacturers, and users are more sure about the healthy condition of their products.

Up to now, all steel production and manufacturing methodologies have been based on standards, concerning proper recipes in hot or cold rolling, heat treatments, etc. Faultless steel production and manufacturing must be based on a continuous on-line automated feedback control based on the monitoring and rehabilitation of their properties.

This is the focal point of this Special Issue: to provide methods and technologies to realize a continuous feedback control system for faultless steel production and manufacturing. Therefore, we are inviting papers on: methods and technologies for steel condition monitoring; methods and technologies for rapid, on-line, and localized steel treatment; and finally certification methods for holistic type approval of a steel product.





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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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