

Special Issue

Advances in the Continuous Casting of Steel

Message from the Guest Editor

Steel is one of the most important engineering materials in the world and plays an essential role in our everyday lives. Continuous casting is a key part of the process route for the production of steel. This includes areas such as the development of advanced monitoring techniques, measurement and automation, improving our understanding of the formation of cracks and other defects, cleanliness and solutions for reducing the number of inclusions in cast products, solidification and metallurgy, the development of new mold powders for use with new steel grades, simulation and numerical modelling of flow in the tundish and the mould, development of new refractories, developments in thin slab casting and direct rolling, and the latest in digitalization and machine learning as applied to continuous casting. This Special Issue is to present an overview of some of these developments, and other continuous casting related issues, from the viewpoint of both industry and academia. It is my great pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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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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