



Modern Trends in Foundry

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Message from the Guest Editors

Dear Colleagues,

At present, the requirements for the quality of metallic materials when it comes to achieving maximum efficiency of production continue to grow in number, with low cost expectations becoming higher and higher. From the point of view of individual metallurgical technologies, foundry presents the fastest way of production of the required parts of components.

This Special Issue named “Modern Trends in Foundry” wants to present the foundry branch in its whole range and variety, covering the trends in modern foundry technologies. These include the choice of batch raw materials, adjustment of chemical composition of the melt, management of temperature regime, control of metallurgical process, aspects of refining processes, application of forming mixtures, casting way, thermal treatment of casts, recycling of foundry waste, as well as the environmental impact. Submitted papers should exhibit the trends in modern foundries, presenting research results and their industrial verification or application completed with modern methods presenting simulations of metallurgical processes.





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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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