



Electroheat Models and Analysis of Metallic Materials

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Message from the Guest Editor

Presently, electroheating of metals belongs to a group of technologies used for the manufacturing of a wide spectrum of products. Further development of this industrial domain, however, requires more and more efficient simulation and experimental tools for modeling and optimization of the corresponding devices and lines. While the models of particular physical phenomena accompanying the heating processes are well known and provide good results, some other issues are still waiting for solution. We can mention, for example, problems with ignorance of material parameters and their temperature characteristic, difficulties accompanying the solution of triply or quadruply coupled 3D problems and mainly the backward tasks typical for optimization.

We do hope this Special Issue can attract excellent scholars who have novel methods and algorithms that are able to cope with the mentioned issues and that can also contribute to new theoretical knowledge.





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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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