

Special Issue

Numerical Simulation of Metals Welding Process—2nd Edition

Message from the Guest Editors

Welding processes are technologies that have been with us for a long time and are constantly developing. Modern software today gives engineers the opportunity to learn more about the mechanisms occurring in modern materials subjected to the impact of the welding thermal cycle. I invite you to send scientifically valuable articles for this Special Issue entitled "Numerical Simulation of Metals Welding Processes (Volume II)". Its scope is very wide and covers all issues of computer-aided use, in particular numerical analyses, in the design and diagnostics of welded elements and structures. The purpose of this Special Issue is to present the latest developments in the field of numerical simulations of welding, so articles should concern the issues of the numerical analyses of welding and heat treatment processes, as well as their use in the design and diagnosis of welded structures. Studies on the influence of the welding heat cycle on the properties, structure, stresses and distortions distribution of welded joints, supported by computational methods, are also welcome.

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Deadline for manuscript submissions

closed (20 October 2024)



Metals

an Open Access Journal
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Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/171527

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Yong Zhang

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