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Advances in Structural Analysis of Materials: Finite Element Modeling

Guest Editor:

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submissions:

closed (20 June 2023)

Message from the Guest Editor

Dear Colleagues,

Recent years have brought about rapid development in the area of new materials. Areas of application include the space, automotive, and sport industries, resulting in many daily use components.

It is a great challenge to properly model the behavior of materials of complex macro/microstructure, mechanical characteristics, novel properties (e.g., noise isolation, heat transfer, lightweight, and metamaterials), etc. for the purpose of their application in structural analysis simulations of load bearing structures.

This Special Issue calls for research papers and review articles dealing with the challenge of the application of new materials in structural engineering simulations. Research papers focusing on material simulations corresponding to structural engineering applications, in addition to case studies of simulations of structures with applied novel materials, are welcome. Manuscripts presenting experimental verification are of great value. However, presentations of highly complex numerical simulations and their proper discussion are also welcome.

Dr. Damian Pietrusiak

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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