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Mechanical Behaviors of Materials: Modelling and Measurement (2nd Edition)

Guest Editor:

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With advancements in modern materials, the relationship between mechanical behavior and novel material properties has become a critical issue in the field of engineering design and development.

Thanks to recent developments centered around computational power and data storage, multiscale modelling analysis has become available for the mechanical behavior study of material elements from macroscopic, microscale, and nanoscale approaches to the characterization of materials.

Moreover, novel developments of nondestructive, optical, acoustic, and image processing methods, etc., have actualized mechanical characterization and application endeavors in view of their ability to accurately measure displacements, strains, and stresses in real time and to gather full-field information without altering object conditions, making them fundamentally useful in complex fields, such as bioengineering, MEMS, high-precision metrology, etc.

This Special Issue aims to focus on multiscale advances in "Mechanical Behaviors of Materials: Modelling and Measurement". The goal is to provide a forum on the stateof-the-art and frontier applications for modelling and characterization.





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Message from the Editor-in-Chief

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