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Thermodynamic Constitutive Theory and Its Application

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Message from the Guest Editors

The range of applications of thermodynamic constitutive theory is broad and covers, for example, complex materials also including internal processes such as chemical reactions, electromagnetic materials, heat conduction, higher gradient materials and materials for use in engineering applications such as fluids, steel and wood. The strict application of thermodynamic constitutive theory in a relativistic framework, for quantum systems or in stochastic thermodynamics, is still under discussion.

Contributions to fundamental aspects, methods and concepts, as well as applications of phenomenological thermodynamic constitutive theory in all branches of physics, engineering and material science, are welcome.



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Special Issue



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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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