Carnot Cycle and Heat Engine Fundamentals and Applications

Guest Editor:

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Message from the Guest Editor

Engineering thermodynamics has been advancing, particularly since the sixties. A first step was the consideration of endoreversible engines, and reverse corresponding configurations. These phenomenological approaches are currently being improved, considering dissipative mechanisms, in order to represent more precisely the global performance of the system. More and more complex systems are being considered (for example, cascades, co- or trigeneration).

The optimization of systems and processes requires clearly defining the objectives and constraints applied to them. The efficiency concept is central to that. Three main aspects are related to particular fundamentals or engineering situations:

- fundamental physical criteria;
- environmental concerns;
- economic concerns.

Prof. Dr. Michel Feidt
Guest Editor

Special Issue

Editor-in-Chief

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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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