Special Issue

Carnot Cycle and Heat Engine Fundamentals and Applications

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.

Guest Editor

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