Applications of CFD in Heat and Fluid Flow Processes

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Message from the Guest Editors

A common approach for the accurate solution of complex transport phenomena such as heat and fluid flow is computational fluid dynamics (CFD) to solve any combination of partial differential equations (PDE). This Special Issue will accept unpublished original papers and comprehensive reviews that aim to describe promising methods arising from the implementation of CFD models of heat and flow processes such as:

Predicting the performance of new designs or processes before they are ever manufactured or implemented;

Analyzing the flows and performance of preexisting process equipment in order to reach conclusions on perspective improvements or optimization possibilities.

Keywords:

- heat transfer
- fluid flow
- CFD applications
- process entropy

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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