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Entropy Generation in Nanofluid Flows II

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Message from the Guest Editors

Recent advances in nanotechnology have allowed the development of a new category of fluids named nanofluids. Using nanofluids is a promising method to achieve a higher heat transfer rate in different thermal systems. Nanofluid also can be used to develop better oils and lubricants in real applications, it can also be employed in solar energy systems to enhance the efficiency of these systems and have some applications in medical process by heat treatment.

The entropy generation or second law analysis is a good method for evaluating a thermal system. The aim of this Special Issue is to encourage the researchers to present their latest original researches on entropy generation and exergy analysis for nanofluid thermal systems. Both experimental and numerical methods can be used to perform an entropy generation analysis for these systems. Entropy generation analyses for Newtonian and Non-Newtonian nanofluid flows in simple or complex geometries with different sizes are welcome. Entropy generation analysis for different applications of nanofluids including renewable energy devices, heat exchangers, and medical processes can be considered for review process.



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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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