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Challenges and Progresses in the Modelling of Entropy Generation in Fluid Mechanics, Heat Transfer and Porous Media

Guest Editors:

Prof. Dr. Mohammad Mehdi Rashidi

Institute of Fundamental and Frontier Sciences, University of Electronic Science and Technology of China, Chengdu 610054, China

Dr. Munawer Ali Abbas

Department of Mathematics, University of Baltistan Skardu, Gilgit-Baltistan, Pakistan

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Message from the Guest Editors

Studies of fluid flow and heat transfer in a porous media has been a subject of continuous interest for the past several decades because of the wide range of applications. such as drying technology, solar systems, building insulation, compact heat transfer and design of nuclear reactors, geothermal systems, drying technologies, the control of pollutant spread in groundwater, and many other applications. Various types of liquids can mix with each other due to the porous boundaries, and a porous medium is very helpful to separate the particles from fluid. However, one of the major issues in these applications is the enhancement of the heat transfer efficiency of fluid during the process, which is also called irreversibility. To overcome this problem, the second law thermodynamics has recently been applied by researchers for minimization of entropy generation to find optimal system designs. engineering Entropy determines the level of irreversibilities accumulating during a process. Consequently, entropy production can be used as a criterion to assess the performance of engineering devices. Researchers are invited to contribute their original research on these topics.













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Editor-in-Chief

Prof. Dr. Kevin H. Knuth

Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

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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