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Heat Transfer Enhancement

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Message from the Guest Editors

Development of modern engineering applications demands heat transfer enhancement. At the same time, efficient heat transfer equipment is necessary to reduce energy consumption and improve energy savings. Heat transfer enhancement techniques can be found in different engineering applications, such as solar energy systems, thermal control, electronics cooling, nuclear reactors, heat exchangers, automotive cooling, refrigeration, chemical process, etc. They are classified as passive methods and active methods. In the first method, no direct application of external power is required, whereas in the second method an external power source is necessary. Plate fins, nanofluids, and porous insertions can be considered as examples of passive techniques, while magnetic fields, induced vibrations, and rotations are examples of active techniques. The present Special Issue is a good opportunity to collect original papers on the most recent research activities on the topic of Heat Transfer Enhancement to provide useful guidelines for future research directions and engineering applications.

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Special Issue



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Message from the Editor-in-Chief

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