

Documents

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A comprehensive review on mixed convection of nanofluids in various shapes of enclosures

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Abstract

This paper aims to review all the published studies about mixed convection of nanofluids in enclosures. The papers are categorized into four main classes, namely square (and rectangular), triangular, trapezoidal, and unconventional shapes, then their important information is summarized in a table. Most studies have reported a remarkable heat transfer enhancement with increasing the nanoparticle volume concentration, Reynolds number and Richardson number and the required pumping power increases by adding nanoparticles to the base fluids. © 2018 Elsevier B.V.

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