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Hybrid Nanofluids for Convection Heat Transfer

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Chapter 2 - Hybrid nanofluids preparation method

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Abstract

In the past few decades, researches on nanofluids have grown rapidly. It was approved that nanofluids are good alternatives to traditional fluids for the purpose of heat transfer enhancement. To have the advantages of the thermophysical properties of more than one nanopowder and to have a cost-effectiveness production, hybrid nanofluids, which are defined as a combination of some nanoparticles, are used. The study also shows that hybrid nanofluids are more efficient than traditional nanofluids. As the mechanisms associated with the heat transfer enhancement of hybrid nanofluids are still unknown, considerable researches are underway to illuminate corners. Hybrid nanofluids are produced by dispersing more than one type of nanoparticle in a base fluid. These nanoparticles can be metallic, nonmetallic, or a combination of these two.

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Keywords

Hybrid nanofluids; preparation methods; application; nanoparticles synthesis; surfactant

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