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Nanofluid transport in porous media: A review

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Abstract

Convection heat transfer mode is the principal topic in thermal transfer. So, it is the matter of many numerical and experimental studies. In recent years, much attention was given to the use of free/forced/mixed convection heat transfer with nanofluids in geothermal engineering, storage of radioactive nuclear waste, solar collectors, transpiration cooling, performance of cold storage, separation processes in chemical industries, thermal insulation of buildings, filtration, space technology, transport processes in aquifers, nuclear reactor cooling system, groundwater pollution, underground nuclear wastes disposal, geothermal extraction, and fiber insulation, etc, and many researches were reported in this topic. This paper presents a detailed review of the numerical and experimental studies carried out by various researchers in order to obtain enhanced heat transfer in free, forced, and mixed convection by using nanofluids in porous media. Critical information of all studies in three categories (analytical, experimental. and numerical) has been collected. © 2019 by Begell House, Inc.

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