

## عنوان مقاله:

Numerical Simulation of a Nanofluid Flow in a Finned Cavity

## محل انتشار:

دومین کنگره بین المللی علوم و فناوری نانو (سال: ۱۳۸۷)

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## خلاصه مقاله:

Improvement of the thermal properties of energy transmission fluids may become a trick of augmenting heat transfer. An innovative way of improving the thermal conductivities of fluids is to suspend small solid particles in the fluids. The cavity flow and heat transfer is an important examples of many engineering applications. This problem may be encountered in a number cooling electronic devices. The heat transfer of a nanofluid in a cavity with internal baffle hasn't been investigated yet. In this study the non-isothermal flow of a nanofluid in a cavity with internal baffle is solved numerically using the finite volume method. The effect of size and location of baffle on the .flow field and Nusselt number are considered

## کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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