

Accepted Manuscript

Non-Darcy free convection of Fe_3O_4 -water nanoliquid in a complex shaped enclosure under impact of uniform Lorentz force

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PII: S0577-9073(17)30845-6
DOI: [10.1016/j.cjph.2017.12.017](https://doi.org/10.1016/j.cjph.2017.12.017)
Reference: CJPH 419



To appear in: *Chinese Journal of Physics*

Received date: 7 July 2017
Revised date: 6 December 2017
Accepted date: 23 December 2017

Please cite this article as: M. Sheikholeslami , S.A. Shehzad , Non-Darcy free convection of Fe_3O_4 -water nanoliquid in a complex shaped enclosure under impact of uniform Lorentz force, *Chinese Journal of Physics* (2017), doi: [10.1016/j.cjph.2017.12.017](https://doi.org/10.1016/j.cjph.2017.12.017)

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Highlights

- Free convection in a complex shaped cavity filled with nanofluid is presented.
- Non Darcy model is taken into account for porous media.
- Effect of Lorentz forces on nanofluid behavior is considered.
- Nusselt number enhances with rise of Darcy and Rayleigh number.

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