

## Accepted Manuscript

Effects of inclined magnetic field on mixed convection in a nanofluid filled double lid-driven cavity with volumetric heat generation or absorption using finite element method

Shafqat Hussain, Hakan F. Öztop, Khalid Mehmood, Nidal Abu-Hamdeh

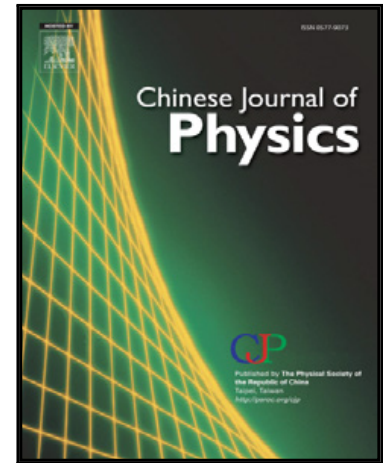
PII: S0577-9073(17)30827-4  
DOI: [10.1016/j.cjph.2018.02.002](https://doi.org/10.1016/j.cjph.2018.02.002)  
Reference: CJPH 448

To appear in: *Chinese Journal of Physics*

Received date: 4 July 2017  
Revised date: 16 January 2018  
Accepted date: 8 February 2018

Please cite this article as: Shafqat Hussain, Hakan F. Öztop, Khalid Mehmood, Nidal Abu-Hamdeh, Effects of inclined magnetic field on mixed convection in a nanofluid filled double lid-driven cavity with volumetric heat generation or absorption using finite element method, *Chinese Journal of Physics* (2018), doi: [10.1016/j.cjph.2018.02.002](https://doi.org/10.1016/j.cjph.2018.02.002)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**Highlights**

- The effect of an inclined magnetic field in a lid-driven cavity is analyzed.
- The Galerkin weighted residual finite element method is used.
- The maximum heat transfer is obtained for maximum value of heat absorption.
- Mean Nusselt number reaches maximum value for magnetic field inclination angle of  $90^\circ$ .

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/8144997>

Download Persian Version:

<https://daneshyari.com/article/8144997>

[Daneshyari.com](https://daneshyari.com)