

Accepted Manuscript

Computational analysis of fluid flow due to a two-sided lid driven cavity with a circular cylinder

Fayçal Hammami , Basma Souayeh , Nader Ben-Cheikh ,
Brahim Ben-Beya

PII: S0045-7930(17)30254-2
DOI: [10.1016/j.compfluid.2017.07.017](https://doi.org/10.1016/j.compfluid.2017.07.017)
Reference: CAF 3550



To appear in: *Computers and Fluids*

Received date: 2 January 2017
Revised date: 11 July 2017
Accepted date: 19 July 2017

Please cite this article as: Fayçal Hammami , Basma Souayeh , Nader Ben-Cheikh ,
Brahim Ben-Beya , Computational analysis of fluid flow due to a two-sided lid driven cavity with
a circular cylinder, *Computers and Fluids* (2017), doi: [10.1016/j.compfluid.2017.07.017](https://doi.org/10.1016/j.compfluid.2017.07.017)

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 unsteady behavior of two-sided lid-driven cubical cavity induced by an obstacle was performed.
- The flow undergoes a bifurcation with a critical Reynolds number of 1034.
- Percentage difference of critical Reynolds number between two- and one-sided lid-driven obstructed cavities is 41.714%.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5011760>

Download Persian Version:

<https://daneshyari.com/article/5011760>

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