Accepted Manuscript

Numerical study of the transition to chaos of a buoyant plume from a two-dimensional open cavity heated from below

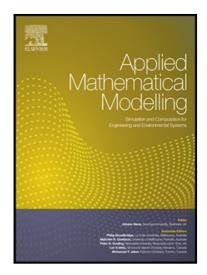
Manman Qiao, Feng Xu, Suvash C. Saha

PII: S0307-904X(18)30223-3 DOI: 10.1016/j.apm.2018.05.013

Reference: APM 12277

To appear in: Applied Mathematical Modelling

Received date: 1 September 2017 Revised date: 9 March 2018 Accepted date: 14 May 2018



Please cite this article as: Manman Qiao , Feng Xu , Suvash C. Saha , Numerical study of the transition to chaos of a buoyant plume from a two-dimensional open cavity heated from below, *Applied Mathematical Modelling* (2018), doi: 10.1016/j.apm.2018.05.013

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.

ACCEPTED MANUSCRIPT

Highlights

- Transition of the plume from the open cavity from steady to chaotic state is studied.
- Dynamics of the plume from the open cavity for each state is discussed
- Dependence of heat and mass transfer of the plume on Rayleigh number is quantified.



Download English Version:

https://daneshyari.com/en/article/8051298

Download Persian Version:

https://daneshyari.com/article/8051298

<u>Daneshyari.com</u>