## Accepted Manuscript

Heat transfer increase for a laminar pipe flow of a magnetic fluid subjected to constant heat flux: an initial theoretical approach

R.G. Gontijo

 PII:
 S0093-6413(18)30059-4

 DOI:
 10.1016/j.mechrescom.2018.05.005

 Reference:
 MRC 3273

To appear in:

Mechanics Research Communications

Received date:26 January 2018Revised date:14 May 2018Accepted date:16 May 2018

Please cite this article as: R.G. Gontijo, Heat transfer increase for a laminar pipe flow of a magnetic fluid subjected to constant heat flux: an initial theoretical approach, *Mechanics Research Communications* (2018), doi: 10.1016/j.mechrescom.2018.05.005

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.



/ 00 (2018) 1-8

AUSCRI

## Highlights

- Theoretical expression for the mean Nusselt number of a magnetic fluid pipe flow;
- Identification of operational parameters to promote heat transfer enhancement;
- Physical discussions regarding the breakthroughs of the proposed theory;
- Conceptual proposition of a new method to promote heat transfer control;

1

Download English Version:

## https://daneshyari.com/en/article/7178750

Download Persian Version:

https://daneshyari.com/article/7178750

Daneshyari.com