## Accepted Manuscript

ELASTO-VISCOPLASTIC FLUID FLOW IN TUBES OF ARBITRARY CROSS-SECTION

Mario F. Letelier, Dennis A. Siginer, Amaru González

 PII:
 S0307-904X(17)30064-1

 DOI:
 10.1016/j.apm.2017.01.058

 Reference:
 APM 11556

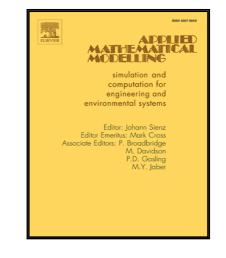
To appear in:

Applied Mathematical Modelling

Received date:13 September 2016Revised date:9 January 2017Accepted date:17 January 2017

Please cite this article as: Mario F. Letelier, Dennis A. Siginer, Amaru González, ELASTO-VISCOPLASTIC FLUID FLOW IN TUBES OF ARBITRARY CROSS-SECTION, *Applied Mathematical Modelling* (2017), doi: 10.1016/j.apm.2017.01.058

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

- First paper on the elasto-visco-plastic behavior in tubes of arbitrary cross-section.
- New constitutive equation to predict the behavior of elasto-visco-plastic fluids.
- Imparting elasticity to a viscoplastic fluid triggers flow enhancement.
- Effect of the presence of elasticity on the stagnant and plug zones of viscoplastic fluids.
- Versatile analytical approach to produce a large spectrum of arbitrary tube contours.

Download English Version:

## https://daneshyari.com/en/article/5471050

Download Persian Version:

https://daneshyari.com/article/5471050

Daneshyari.com