

## IMPROVEMENTS AND ASSESSMENT OF THE INTEGRAL VISCOELASTIC SOLVER IN OPENFOAM®

M.S.B. de Araújo<sup>1</sup>, C. Fernandes<sup>2</sup>, L.L. Ferrás<sup>2</sup>, J.M. Nóbrega<sup>2</sup>

<sup>1</sup>*Universidade Federal do Pará, Instituto de Ciências Exatas e Naturais, Faculdade de Matemática  
silvino@ufpa.br*

<sup>1</sup>*Institute for Polymers and Composites, University of Minho, Campus de Azurém 4800-058 Guimarães, Portugal*

<sup>2</sup>*cbpf@dep.uminho.pt*

<sup>2</sup>*luis.ferras@dep.uminho.pt*

<sup>2</sup>*mnobrega@dep.uminho.pt*

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In this work we present some improvements on the implementation of integral viscoelastic constitutive models in OpenFOAM®. The Finger tensor is calculated using the deformations fields method using new and different approaches to determine the integration points when calculating the stress. The robustness of the implemented numerical code is assessed by performing numerical simulations in a 4:1 contraction, using an UCM model.