

## Accepted Manuscript

Advances in the simulation of viscoplastic fluid flows using interior-point methods

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PII: S0045-7825(17)30711-9  
DOI: <https://doi.org/10.1016/j.cma.2017.11.006>  
Reference: CMA 11665

To appear in: *Comput. Methods Appl. Mech. Engrg.*

Received date: 15 March 2017  
Revised date: 17 July 2017  
Accepted date: 3 November 2017

Please cite this article as: J. Bleyer, Advances in the simulation of viscoplastic fluid flows using interior-point methods, *Comput. Methods Appl. Mech. Engrg.* (2017), <https://doi.org/10.1016/j.cma.2017.11.006>

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- \* A primal-dual interior point algorithm for solving viscoplastic fluid flows is proposed
- \* Comparison with standard and accelerated Augmented Lagrangian algorithms is performed
- \* Interior-point method is 4 to 6 times faster than accelerated Augmented Lagrangian
- \* Yield surfaces are accurately predicted
- \* 3D flows in a porous medium show the efficiency of the interior point algorithm

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