

the finite volume method in computational rheology - for the pure fvm in computational rheology, there has been a significant effort at developing accurate and stable methods by the authors of this chapter: oliveira and pinho (1999b), alves et al (2000, 2001a, 2003a, 2003b) and afonso et al (2009, 2012). **the finite volume method in computational rheology** - techniques in computational rheology and its applications, such as polymer processing or, more recently, microfluidic systems using complex fluids. this chapter describes the major advances on ... **a computational extensional rheology study of two biofluid ...** - original contribution a computational extensional rheology study of two biofluid systems jose esteban iñíguez-aguilar & michael f. webster & alaa hasan a. al-muslimawi & **computational rheology: challenges and developments - up** - computational rheology: challenges and developments a.m. afonso1, f.t. pinho2 and m.a. alves1 1 centro de estudos de fenômenos de transporte, departamento de engenharia química, faculdade de engenharia da **coil-stretch transition and the breakdown of computations ...** - rheology owens and phillips 2002 . despite the apparent simplicity of the macroscopic equations, obtaining solutions at industrially relevant values of the weissenberg number wi has proven to be extremely **micro-macro methods for the multiscale simulation of ...** - in this context, micro-macro methods of computational rheology that couple the coarse-grained molecular scale of kinetic theory to the macroscopic scale of continuum mechanics have an important role to play. **chapter 14 the use of mixed finite element methods for ...** - a review of the field of computational rheology that covers also other techniques, such as spectral methods, is given in the recent book by owens and phillips, 2002. **I epl If 1012 rheology 03 - institute of physics** - rheology is not only the measurement of rheological functions, ... [10] r. g. owens, t.n. phillips (2002) computational rheology, world scientific publishing co. [11] m.p. allen, d.j. tildesley (1988) computer simulation of liquids, oxford university press. [12] d.c. rapaport (2004) the art of molecular dynamics simulation, cambridge university press. fig. 4. definition of first and second ... **oliveira, monica and oliveira, p.j. and pinho, f.t. and ...** - on the theme refer to the book by owens and phillips [9]. here we limit ourselves to a description of some important results with direct relevance to the problem at hand. 1.1. the sudden contraction configurations there are three main types of configuration used in sudden contraction research: the axisymmetric, the planar and the three-dimensional contraction of which the square-square configuration ... **12345efghi - cs.swansea** - feature recognises the dependency of melt rheology on the molecular structure of the polymer, whilst the second recognises that the spectrum of relaxation times leads to partial differential equations for the orientation and stretch. **cronfa - swansea university open access repository** - [12], owens and phillips [13], chhabra [6]). caswell et al. [5] pointed out that this discrepancy, between experimental measurements and computed solutions, may be somewhat due to the inadequacy of **book reviews - staticbridge** - computational rheology. by r. g. owens & t. n. phillips. world scientific, 2002. 415 pp. isbn 186094186 9. \$78 or £53. j. fluid mech. (2004), vol. 502, doi: 10.1017/s0022112003228391 one of the difficulties that faces a student of rheology is the multi-disciplinary nature of the subject. the formulation of appropriate constitutive equations involves statistical physics for the microstructure ... **references - home - springer** - 208 references 55. m. luskin, computational modeling of microstructure, dans proceedings of the international congress of mathematicians, icm 2002, beijing, p 707-716.

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