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Graus Académicos:

2004 Agregação em Engenharia Mecânica pela Universidade de Coimbra
1990 Doutoramento pela Universidade de Londres (Imperial College).
1990 DIC (Diploma of Imperial College - Universidade de Londres).
1987 Mestrado em Engenharia Térmica pela FEUP.
1984 Licenciatura em Engenharia Mecânica, opção de Fluidos e Calor, pela FEUP.

Posição Actual:

2008- Professor Associado com agregação no Departamento de Engenharia Mecânica e Gestão Industrial da Faculdade de Engenharia da Universidade do Porto desde 27 de Agosto de 2008

Principais Posições Anteriores:

2003- Investigador estrangeiro do Núcleo de Excelência em Turbulência, Pronex E-26/171.198/2003 da Universidade Federal do Rio de Janeiro, Brasil desde Dezembro de 2003..
2004-08 Professor Associado com agregação do Departamento de Engenharia Mecânica da Escola de Engenharia da Universidade do Minho entre Julho de 2004 e Agosto de 2008
2000-04 Professor Associado Departamento de Engenharia Mecânica e Gestão Industrial da Faculdade de Engenharia da Universidade do Porto de Janeiro de 2000 a Janeiro de 2004.
1996-00 Professor Auxiliar do Departamento de Engenharia Mecânica e Gestão Industrial da Faculdade de Engenharia da Universidade do Porto de Novembro de 1990 a Janeiro de 2000.
1993-4 Coordenador do CETERM (Unidade de Térmica Industrial) do INEGI (Instituto de Engenharia Mecânica e Gestão Industrial) de 10 de Setembro de 1993 a 7 de Novembro de 1994.
1991-2 Coordenador do CETERM (Unidade de Térmica Industrial) do INEGI (Instituto de Engenharia Mecânica e Gestão Industrial), criado no âmbito do programa de reapetrechamento solicitado ao PEDIP, entre 1 de Março de 1991 e 31 de Agosto de 1992.
1988-90 Assistente de Investigação no Departamento de Engenharia Mecânica do Imperial College of Science, Technology and Medicine da Universidade de Londres;

Principal área científica de Investigação: Engenharia Mecânica: Mecânica dos Fluidos e Energia
Outras áreas científicas de Interesse (I&D): Engenharia Química: Fenómenos de Transporte

Organismos Científicos

Membro do "Engineering Peer Review College" do "Engineering and Physical Sciences Research Council" (EPSRC) do Reino Unido desde 1 de Janeiro de 2006;

Revistas Científicas

Membro do Conselho Editorial da Revista Científica "Journal of Non-Newtonian Fluid Mechanics" da Elsevier, desde Janeiro de 2007;
Membro do Conselho Editorial da Revista Científica Electrónica "International Journal of Chemical Engineering", anteriormente "Research Letters in Chemical Engineering", Hindawi, desde Novembro de 2007;
Membro do Conselho Editorial da Revista Científica Electrónica "Open Mechanical Engineering Journal", Bentham Science Publishers Ltd, desde Fevereiro de 2007;
Membro do Conselho Editorial da Revista Científica Electrónica "Open Enzyme Inhibition Journal", Bentham Science Publishers Ltd, desde 2008;

Publicações em Revistas com Revisão e Capítulos de Livros:

105) Cruz DO e Pinho FT 2012. Analysis of isothermal flow of a Phan-Thien—Tanner fluid in a simplified model of a single-screw extruder. *J. Non-Newt. Fluid Mech.*, 167-168, 95-105.

104) Cavadas AS, Pinho FT e Campos JBLM 2012. Laminar non-Newtonian impinging jet flow confined by sloping plane walls. *J. Non-Newt. Fluid Mech.*,169-170, 1-14.

103) Galindo- Rosales FJ, Campo-Deaño L, Pinho FT, van Bokhorst E, Hamersma PJ, Oliveira MSN e Alves MA 2012. Microfluidic systems for the analysis of viscoelastic phenomena in porous media. *Microfluidics and Nanofluidics*, 12, 485-498.

101) Sousa PC, Pinho FT, Oliveira MSN e Alves MA 2012. High performance microfluidic rectifiers for low inertia viscoelastic fluid flow. *RSC Advances*, 2, 920-929.

100) Afonso AM, Pinho FT e Alves MA 2012. The kernel-conformation constitutive laws. *J. Non-Newt. Fluid Mech.*, 167-168, pp 30-37.

99) Coelho PM, Alves MA e Pinho FT 2012. Forced convection in electro-osmotic/Poiseuille micro-channel flows of viscoelastic fluids: fully-developed flow with imposed wall heat flux. *Microfluidics and Nanofluidics*, 12, 431-449.

98) Oliveira MSN, Alves MA e Pinho FT 2012. Microfluidic flows of viscoelastic fluids. Chapter 6 in *Transport and Mixing in Laminar Flows: From Microfluidics to Oceanic Currents*. Roman Grigoriev (Editor), Heinz Georg Schuster (Editor da Série), pp 131-174, ISBN 978-3-527-41011-8, Wiley-VCH Verlag

97) Campo- Deaño L, Galindo- Rolales FJ, Pinho FT, Alves MA e Oliveira MSN 2011. Flow of low viscosity Boger fluids through a microfluidic hyperbolic contraction. *J. Non-Newt. Fluid Mech.*, 166, 1286-1296.

96) Resende PR, Kim K, Younis BA, Sureshkumar R e Pinho FT 2011. A FENE-P *k-e* turbulence model for low and intermediate regimes of polymer-induced drag reduction. *J. Non-Newt. Fluid Mech.*, 166, 639-660.

95) Afonso AM, Oliveira PJ, Pinho FT e Alves MA 2011. Dynamics of high Deborah number entry flows — A numerical study. *J. Fluid Mech.*, 677, 272-304.

94) Sousa PC, Pinho FT, Oliveira MSN e Alves MA 2011. Extensional flow of blood analogue solutions in microfluidic devices. *Biomicrofluidics*, 5, 14108.

93) Afonso AM, Alves MA e Pinho FT 2011. Electro-osmotic flow of viscoelastic fluids in microchannels under asymmetric zeta potentials. *J. Engineering Mathematics, Edição especial em Complex Flows*, 71, 15-30.

92) Afonso AM, Alves MA, Poole RJ, Oliveira PJ e Pinho FT 2011. Viscoelastic flows in mixing-separating cells. *Journal of Engineering Mathematics, Edição especial em Complex Flows*, 71, 3-13.

91) Sousa JJ, Afonso AM, Pinho FT e Alves MA 2011. Effect of the skimming layer on electro-osmotic-Poiseuille flows of viscoelastic fluids. *Microfluidics and Nanofluidics*, 10, 107-122.

90) Sousa PC, Pinho IS, Pinho FT, Oliveira MSN e Alves MA 2011. Flow of a blood analogue solution through microfabricated hyperbolic contractions. In *Computational Vision and Medical Image Processing: Recent Trends*, Computational Methods in Applied Sciences, Volume 19, pp 265-279, DOI 10.1007/978-94-007-0011-6_15, Springer.

89) Afonso AM, Alves MA e Pinho FT 2010. Purely elastic instabilities in three-dimensional cross slot geometries. *J. Non-Newt. Fluid Mech.*, 165, 743- 751.

88) Sousa PC, Pinho FT, Oliveira MSN e Alves MA 2010. Efficient microfluidic rectifiers for viscoelastic fluid flow. *J. Non-Newt. Fluid Mechanics*, 165, 652-671.

87) Dhinakaran S, Afonso AM, Alves MA e Pinho FT 2010. Steady viscoelastic fluid flow between parallel plates under electro-osmotic forces: Phan-Thien—Tanner model. *J. Colloid Interface Science*, 344, 513-520.

86) Tomé MF, Paulo GS, Pinho FT e Alves MA 2010. Numerical solution of the PTT constitutive equation for unsteady three-dimensional free surface flows. *J. Non-Newt. Fluid Mech.*, 165, 247-262

85) Pinho FT e Coelho PM 2008. Non-Newtonian Heat Transfer. Capítulo 17 em *Reologia* [Ed. Crispulo Gallegos], in Volume 2, Encyclopedia of Life Support System (EOLSS), Desenvolvido sob os auspicios da UNESCO, Eolss, Oxford, UK [http://www.eolss.net], ISBN: 978-1-84826-770-1.

84) Poole RJ, Pinho FT, Alves MA e Oliveira PJ 2009. The effect of expansion ratio for creeping expansion flows of UCM fluids. *J. Non-Newt. Fluid Mech.*, 163, 35-44.

83) Oliveira MSN, Pinho FT, Poole RJ, Oliveira PJ e Alves MA 2009. Purely elastic flow asymmetries in flow-focusing devices. *J. Non-Newt. Fluid Mech.,* 160, 31-39.

82) Afonso A, Alves MA e Pinho FT 2009. Analytical solution of mixed electro-osmotic/ pressure driven flows of viscoelastic fluids in microchannels. *J. Non-Newt. Fluid Mech.*, 159, 50-63.

81) Loureiro JBR, Monteiro AS, Pinho FT e Silva Freire AP 2009. The effect of roughness on separating flows over two-dimensional hills. *Exp in Fluids*, 46, 577-596.
80) - Afonso A, Oliveira PJ, Pinho FT e Alves MA. 2009. The log-conformation tensor approach in the finite-volume method framework. *J. Non-Newt. Fluid Mech.*, 157, 55-65.
79) - Cruz DOA e Pinho FT. 2009. Stoke's second problem with wall suction or blowing for UCM fluids. *J. Non-Newt. Fluid Mech.*, 157, 66-78.
78) Coelho PM e Pinho FT 2009. A generalized definition of Brinkman number for duct flow. *J. Non-Newt. Fluid Mech.*, 156, 202-206.
77) Alves MA, Pinho FT e Oliveira PJ 2008. Viscoelastic flow in a 3D square/square contraction: visualizations and simulations. *Journal of Rheology*, 52, 1347-1368.
76) Loureiro JBR, Monteiro AS, Pinho FT e Silva Freire AP 2008. Water tank studies of separating flow over rough hills. *Boundary Layer Meteorology*, 129, 289- 308.
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72) Afonso A, Alves MA, Pinho FT e Oliveira PJ 2008. Uniform flow of viscoelastic fluids past a falling cylinder. *Rheologica Acta*, 47, 325-348.
71) Miranda AIP, Oliveira PJ e Pinho FT 2008. Steady and unsteady laminar flows of Newtonian and generalized Newtonian fluids in a planar T- junction. *Int. Journal Numerical Methods in Fluids*, 57, 295-328.
70) Poole RJ, Escudier MP, Afonso A e Pinho FT 2007. Laminar flow of a viscoelastic shear-thinning liquid over a backward-facing step preceded by a gradual contraction. *Physics of Fluids*, 19, 93101.
69) Oliveira MSN, Oliveira PJ, Pinho FT e Alves MA 2007. Effect of contraction ratio upon viscoelastic flow in contractions: the axisymmetric case. *J. Non-Newt. Fluid Mech.*, 147, 92-108.
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62) Cruz DOA e Pinho FT 2006. Turbulência em Fluidos não-Newtonianos. Capítulo 6 de "Turbulência", Volume V-I, Editores A. P. Silva Freire, A. Ilha e M. J. Colaço, ABCM, 5ª Escola de Transição e Turbulência, ISBN 978-85-85769-24-6, pp 253-339.
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57) Rosa S e Pinho FT 2006. Pressure drop coefficient of laminar Newtonian flow in axisymmetric diffusers. *Int. J. Heat and Fluid Flow*, 27, 319-328.
56) Resende PR, Escudier MP, Presti F, Pinho FT e Cruz DOA 2006. Numerical predictions and measurements of Reynolds normal stresses in turbulent pipe flow of polymers. *Int. J. Heat and Fluid Flow*, 27, 204-219.
55) Cruz DOA, Pinho FT e Oliveira PJ 2005. Analytical solution for fully developed flow of some viscoelastic liquids with a Newtonian solvent contribution. *J. Non-Newt. Fluid Mech.*132, 28-35.

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53) Nóbrega JM, Carneiro OS, Covas JA, Pinho FT e Oliveira PJ 2004. Design of calibrators for extruded profiles. Part 1: Modeling the thermal interchanges. *Polymer Eng. and Sci.*, 44 (12), 2216-2228.
52) Cruz DOA, Pinho FT e Resende PR 2004. Modelling the new stress for improved drag reduction predictions of viscoelastic pipe flow. *J. Non-Newt. Fluid Mech*, 121, 127-141.
51) Oliveira PJ, Coelho PM e Pinho FT 2004. The Graetz problem with viscous dissipation for FENE-P fluids. *J. Non-Newt. Fluid Mech.*, 121, 69-72.
50) Nóbrega JM, Carneiro OS, Pinho FT e Oliveira PJ 2004. Flow balancing in extrusion dies for thermoplastic profiles. Part III: Experimental assessment. *International Polymer Processing*, 19 (3), 225-235.
49) Coelho PM e Pinho FT 2004. Vortex-shedding in cylinder flow of shear-thinning fluids. III- Pressure measurements. *J. Non-Newt. Fluid Mech.*, 121, 55-68.
48) Cruz DOA e Pinho FT 2004. Skewed Poiseuille- Couette flows of SPTT fluids in concentric annuli and channels. *J. Non-Newt. Fluid Mech*, 121, 1-14
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45) Cavadas AS e Pinho FT 2004. Some characteristics of stirred vessel flows pf dilute polymer solutions powered by an hyperboloid impeller. *Can. J. Chem. Eng.*, 82, 289-302.
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38) Coelho PM e Pinho FT 2003. Vortex-shedding in cylinder flow of shear-thinning fluids. II- Flow characteristics. *Journal of Non-Newtonian Fluid Mechanics,* 110, 177-193.
37) Coelho PM e Pinho FT 2003. Vortex-shedding in cylinder flow of shear-thinning fluids. I- Identification and demarcation of flow regimes. *J. Non-Newt. Fluid Mech.,* 110, 143-176.
36) Alves MA, Oliveira PJ e Pinho FT 2003. Benchmark solutions for the flow of Oldroyd-B and PTT fluids in planar contractions.*Journal of Non-Newt. Fluid Mech.*, 110, 45-75.
35) Alves MA, Oliveira PJ e Pinho FT 2003. A convergent and universally bounded interpolation scheme for the treatment of advection. *Int. J. Num. Methods in Fluids*, 41, 47-75.
34) Alves MA., Cruz P, Mendes A, Magalhães FD, Pinho FT e Oliveira PJ 2002. Adaptive multiresolution approach for solution of hyperbolic PDE's. *Computer Methods in Applied Mechanics and Engineering*, 191, 3909-3928.
33) Escudier MP, Oliveira PJ, Pinho FT e Smith S 2002. Fully-developed laminar flow of non-Newtonian liquids through annuli: comparison of numerical calculations with experiments. *Exp. in Fluids*,33, 101-111.
32) Pereira AS e Pinho FT 2002. The effect of the expansion ratio on a turbulent non-Newtonian recirculating flow. *Exp. in Fluids*, 32, 458-471.
31) Escudier MP, Oliveira PJ e Pinho FT 2002. Fully developed laminar flow of purely viscous non-Newtonian liquids through annuli, including the effects of eccentricity and inner-cylinder rotation. *Int. J. Heat and Fluid Flow*, 23, 52-73.
30) Pereira AS e Pinho FT 2002. Turbulent pipe flow of thixotropic fluids. *Int. J. Heat and Fluid Flow*, 23, 36-51.
29) Coelho PM, Pinho FT e Oliveira PJ 2002. Fully-developed forced convection of the Phan-Thien—Tanner fluid in ducts with a constant wall temperature. *Int. J. Heat and Mass Transfer*, 45(7), 1413-1423.

28) Pinho FT 2001. The Finite-Volume Method Applied to Computational Rheology: II-Fundamentals For Stress-Explicit Fluids. *e-rheo.pt*, 1, 63-100.
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26) Pinho FT e Oliveira PJ 2001. The methodology of finite volumes applied to computacional rheology: I- Introduction. (in Portuguese) *e-rheo.pt*, 1, 1-15.
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24) Carneiro OS, Nóbrega JM, Pinho FT e Oliveira PJ 2001. Computer aided rheological design of extrusion dies for profiles. *Journal of Materials Processing and Technology*, 114(1), 75-86.
23) Alves MA, Pinho FT e Oliveira PJ 2001. The flow of viscoelastic fluids past a cylinder: finite-volume high-resolution methods. *J. Non-Newt. Fluid Mech.,* 97, 207-230.
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