

Liste des publications et communications

A.Publications dans des revues internationales à comité de lecture

- A1. J. Bouyer and M. Fillon, "An experimental analysis of misalignment effects on hydrodynamic plain journal bearing performances," *Journal of Tribology*, vol. 124, pp. 313–319, 2002
- A2. I. Pierre, J. Bouyer, and M. Fillon, "Thermohydrodynamic study of misaligned journal bearings-comparision between experimental data and theoretical results," *International Journal of Applied Mechanics and Engineering*, vol. 7, pp. 949–960, 2002
- A3. J. Bouyer and M. Fillon, "Improvement of the thd performance of a misaligned plain journal bearing," *Journal of Tribology*, vol. 125, no. 2, pp. 334–342, 2003
- A4. J. Bouyer and M. Fillon, "On the significance of thermal and deformation effects on a plain journal bearing subjected to severe operating conditions," *Journal of Tribology*, vol. 126, no. 4, pp. 819–822, 2004
- A5. J. Bouyer and M. Fillon, "Relevance of the thermoelastohydrodynamic model in the analysis of a plain journal bearing subjected to severe operating conditions," *Proceedings of the Institution of Mechanical Engineers, Part J : Journal of Engineering Tribology*, vol. 218, no. 5, pp. 365–377, 2004
- A6. M. Fillon and J. Bouyer, "Thermohydrodynamic analysis of a worn plain journal bearing," *Tribology International*, vol. 37, no. 2, pp. 129–136, 2004
- A7. I. Pierre, J. Bouyer, and M. Fillon, "Thermohydrodynamic behavior of misaligned plain journal bearings : Theoretical and experimental approaches," *Tribology Transactions*, vol. 47, no. 4, pp. 594–604, 2004
- A8. J. Bouyer, M. Fillon, and I. Pierre-Danos, "Influence of wear on the behavior of a twolobe hydrodynamic journal bearing subjected to numerous startups and stops," *Journal of Tribology*, vol. 129, no. 1, pp. 205–208, 2007
- A9. F. P. Brito, A. S. Miranda, J. Bouyer, and M. Fillon, "Experimental investigation of the influence of supply temperature and supply pressure on the performance of a two-axial groove hydrodynamic journal bearing," *ASME Journal of Tribology*, vol. 129, no. 1, pp. 98–105, 2007
- A10. J. Bouyer and M. Fillon, "Experimental measurement of the friction torque on hydrodynamic plain journal bearings during start-up," *Tribology International*, vol. 44, pp. 772–781, 2011
- A11. A. Cristea, J. Bouyer, M. Fillon, and M. Pascovici, "Pressure and temperature field measurements of a lightly loaded circumferential groove journal bearing," *STLE Tribology Transactions*, vol. 54, pp. 806–823, 2011
- A12. E. Harika, M. Hélène, J. Bouyer, and M. Fillon, "Impact of lubricant contamination with water on hydrodynamic thrust bearing performance.," *Mechanics & Industry*, vol. 12, pp. 353–359, 2011
- A13. E. Harika, S. Jarny, P. Monnet, J. Bouyer, and M. Fillon, "Effect of water pollution on rheological properties of lubricating oil.," *Applied Rheology*, vol. 21, pp. 1–9, 2011

- A14. M. Kasai, M. Fillon, J. Bouyer, and S. Jarny, "Influence of lubricants on plain bearing performance: evaluation of plain bearing performance with polymer-containing oils.," *Tribology International*, vol. 46, pp. 190–199, 2012
- A15. E. Harika, J. Bouyer, M. Fillon, and M. Hélène, "Measurements of lubricants char of a tilting-pad thrust bearing disturbed by a water-contaminated lubricant.," *Proceedings of the Institution of Mechanical Engineers, Part J : Journal of Engineering Tribology*, vol. 227, pp. 16–25, 2013
- A16. E. Harika, J. Bouyer, M. Hélène, and M. Fillon, "Effects of water contamination of lubricants on hydrodynamic lubrication : rheological and thermal modeling," *Journal of Tribology*, vol. 135 (4), p. 041707, 2013
- A17. Y. Henry, J. Bouyer, and M. Fillon, "An experimental hydrodynamic thrust bearing device and its application to the study of a tapered-land thrust bearing," *Journal of Tribology*, Accepted for publication

B. Conférences invitées et revues scientifiques

- B1. J. Bouyer and M. Fillon, "Behaviour of a hydrodynamic journal bearing : torque measurement during start-up.," *The annals of University "Dunarea de Jos" of Galati, Fascicle VIII, Tribology*, vol. 1, pp. 53–57, 2008
- B2. A. Cristea, J. Bouyer, M. Fillon, and M. Pascovici, "A film extent study in the divergent zone of circumferential groove journal bearings.," in *11th International Conference on tribology, ROTRIB'10, Iasi, Roumanie*, 2010

C. Communications orales à des congrès nationaux et internationaux avec actes

- C1. J. Bouyer and M. Fillon, "Experimental study on thermal effects of a misaligned hydrodynamic journal bearing," in *7th Portuguese Conference on Tribology*, pp. 63–66, 2000
- C2. J. Bouyer and M. Fillon, "Effets du mésalignement sur les performances d'un palier hydrodynamique - aspects expérimentaux," in *15ème Congrès Français de Mécanique*, pp. CD, 6 pages, 2001
- C3. M. Fillon and J. Bouyer, "Experimental study of a plain journal bearings : Influence of direction and intensity of misalignment torque on bearing performances," in *Proc. of 16th Brazilian Congress of Mechanical Engineering, COBEM 2001, Tribology, Uberlândia, Brésil*, pp. 42–49, 2001
- C4. J. Bouyer and M. Fillon, "Thermohydrodynamic analysis of a worn plain journal bearing.," in *AUSTRIB02, 6th International Tribology Conference, Perth, Australie*, pp. 391–398, 2002
- C5. J. Bouyer and M. Fillon, "Improvement of the thd performance of a misaligned plain journal bearing.," in *STLE-ASME Tribology Conference, Cancun, Mexique*, pp. 1–9, 2002
- C6. J. Bouyer and M. Fillon, "Influence of wear on the thermohydrodynamic performance of a plain journal bearing.," in *EDF/LMS Workshop on "Bearings Under Severe operating conditions", Futuroscope, France*, pp. 1–8, 2002

- C7. J. Bouyer and M. Fillon, "Influence des déformations élastiques et des effets thermiques sur les performances d'un palier hydrodynamique soumis à de très fortes charges.," in 16ème Congrès Français de Mécanique, Nice, France, pp. 1–6, 2003
- C8. J. Bouyer and M. Fillon, "Deformations significance on the behaviour of a plain journal bearing subjected to heavy load or high speed.," in 3rd EDF/LMS Workshop on "Improvement of bearing performance under severe operating conditions", Futuroscope, France, pp. 1–8, 2004
- C9. J. Bouyer and M. Fillon, "Influence of deformation effects on a misaligned plain journal bearing," in Proceedings of the 3rdWorld Tribology Congress, WTC05, Washington, USA, pp. 105–106, 2005
- C10. F. P. Brito, J. Bouyer, M. Fillon, and A. S. Miranda, "Influência da carga aplicada e da temperatura do óleo de alimentação no desempenho de uma chumaceira radial hidrodinâmica com dois sulcos axiais.," in III Congresso Ibérico de Tribologia, IBERTRIB 2005, Guimaraes, Portugal, pp. 1–12, 2005
- C11. J. Bouyer, M. Fillon, and I. Pierre-Danos, "Experimental characterization of wear and its influence on the behavior of a two-lobe hydrodynamic journal bearing.," in Proc. of the International Tribology Conference AUSTRIB06, Brisbane, Australia, pp. 1–6, 2006
- C12. J. Bouyer, M. Fillon, and I. Pierre-Danos, "Influence of wear on the behavior of a two-lobe hydrodynamic journal bearing subjected to numerous start-ups and stops.," in STLE-ASME International Joint Tribology Conference, San Antonio, USA, pp. 1–5, 2006
- C13. F. P. Brito, J. Bouyer, M. Fillon, and A. S. Miranda, "Experimental investigation on the thermal behaviour and performance characteristics of a twin axial groove journal bearing as a function of applied load and rotational speed.," in Mechanical & Material in Design, M2D 2006, Porto, Portugal, pp. 1–10, 2006
- C14. F. P. Brito, J. Bouyer, M. Fillon, and A. S. Miranda, "Experimental investigation of the influence of supply temperature and supply pressure on the performance of a two axial groove hydrodynamic journal bearing.," in STLE-ASME International Joint Tribology Conference, San Antonio, USA, pp. 1–10, 2006
- C15. F. P. Brito, J. Bouyer, M. Fillon, and A. S. Miranda, "Thermal behaviour and performance characteristics of a twin axial groove journal bearing as a function of applied load and oil supply temperature.," in NORDTRIB 2006, Helsingore, Denmark, pp. 1–10, 2006
- C16. J. Bouyer and M. Fillon, "Behaviour of a hydrodynamic journal bearing : torque measurement during start-up.," in 10th International Conference on tribology, ROTRIB07, Bucharest, Roumanie, pp. 1–5, 2007
- C17. J. Bouyer and M. Fillon, "An experimental investigation on friction coefficient in plain journal bearings during start-up.," in STLE-ASME International Joint Tribology Conference, Miami, USA, pp. 1–3, 2008
- C18. J. Bouyer, M. Fillon, and C. Dobre, "Experimental investigation of surface roughnesses and bearing materials on the friction coefficient during start-up.," in STLE 65th Annual Meeting, Las Vegas, USA, pp. 1–3, 2010
- C19. A. Cristea, J. Bouyer, M. Fillon, and M. Pascovici, "Pressure field measurements of a circumferential groove journal bearing.," in STLE 65th Annual Meeting, Las Vegas, USA, pp. 1–3, 2010

- C20. E. Harika, M. Hélène, J. Bouyer, and M. Fillon, "Impact of lubricant contamination with water on hydrodynamic thrust bearing performance.," in 9th EDF/Pprime (LMS) Workshop on "Improvement of Bearing Performance and Evaluation of Adverse Conditions", Futuroscope, France, pp. 1–8, 2010
- C21. A. Cristea, J. Bouyer, M. Fillon, and M. Pascovici, "Temperature field measurements of a circumferential groove journal bearing.," in STLE 66th Annual Meeting, Atlanta, USA, pp. 1–3, 2011
- C22. E. Harika, M. Hélène, J. Bouyer, and M. Fillon, "Effects of lubricant viscosity disruption due to water contamination : Simulations of hydrodynamic thrust bearing behaviour.," in STLE 66th Annual Meeting, Atlanta, USA, pp. 1–3, 2011
- C23. A. Cristea, J. Bouyer, M. Fillon, and M. Pascovici, "An experimental investigation on the risk of seizure in circumferential groove journal bearings," in 10th EDF/Pprime Workshop on "Condition Monitoring, Performance Improvement and Safe Operation of Bearings", Futuroscope, France, pp. 1–8, 2011
- C24. E. Harika, M. Hélène, J. Bouyer, and M. Fillon, "Effects of water contamination on lubricating performance : Experiments on a hydrodynamic tilting pad thrust bearing.," in ECOTRIB 2011, Vienne, Autriche, pp. 687–688, 2011
- C25. E. Harika, M. Hélène, J. Bouyer, and M. Fillon, "Lubrication with water contaminated oil : experiments on a tilting pad thrust bearing.," in 10th EDF/Pprime Workshop on "Condition Monitoring, Performance Improvement and Safe Operation of Bearings", Futuroscope, France, pp. 1–8, 2011
- C26. Y. Henry, J. Bouyer, M. Fillon, and F. Delamour, "Experimental investigation on flat parallel surface thrust bearings.," in 10th EDF/Pprime Workshop on "Condition Monitoring, Performance Improvement and Safe Operation of Bearings", Futuroscope, France, pp. 1–8, 2011
- C27. J. Bouyer, M. Hanahashi, M. Fillon, and M. Fujita, "Experimental investigation of the influence of materials on the behaviour of a hydrodynamic tilting pad thrust bearing.," in NordTrib 2012, International Tribology Conference, Trondheim, Norvège, pp. 1–5, 2012
- C28. A. Cristea, J. Bouyer, M. Fillon, and M. Pascovici, "Transient and steady-state measurements of pressure and temperature fields in a circumferential groove journal bearing.," in STLE 67th Annual Meeting, Saint-Louis, USA, pp. 1–3, 2012
- C29. M. Kasaï, M. Fillon, J. Bouyer, and S. Jarny, "Influence of lubricants on plain bearing performance : Analysis of bearing performance with polymer-containing oils.," in STLE 67th Annual Meeting, Saint-Louis, USA, pp. 1–3, 2012
- C30. J. Bouyer, Y. Nakano, M. Hanahashi, and M. Fillon, "Experimental investigation on a hydrodynamic tilting-pad thrust bearing operating under unusual conditions," in STLE 68th Annual Meeting, Detroit, USA, pp. 1–3, 2013
- C31. Y. Henry, J. Bouyer, and M. Fillon, "Experimental investigation of hydrodynamic and thermal effects on a flat-land thrust bearing," in STLE 68th Annual Meeting, Detroit, USA, pp. 1–3, 2013

D. Communications orales à des congrès nationaux et internationaux sans actes

- D1. J. Bouyer and M. Fillon, "Etude expérimentale de l'influence du mésalignement sur les effets thermiques dans les paliers hydrodynamiques," in Journées Francophones de Tribologie JIFT2000, Besançon, France, pp. 147–154, 2002
- D2. J. Bouyer and M. Fillon, "An experimental analysis of the misalignment effects on hydrodynamic plain journal bearing performances.," in STLE-ASME Tribology Conference, San Francisco, USA, 2001
- D3. I. Pierre, J. Bouyer, and M. Fillon, "Thermohydrodynamic behavior of misaligned plain journal bearings - theoretical and experimental approaches.," in STLE 58th Annual Meeting, New York, USA, 2003
- D4. J. Bouyer and M. Fillon, "On the significance of thermal and deformation effects of a plain journal bearing subjected to severe operating conditions.," in STLE-ASME Tribology Conference, Ponte Vedra Beach, USA, 2003
- D5. E. Harika, I. Pierre-Danos, J. Bouyer, M. Fillon, S. Jarny, and P. Monnet, "Comportement rhéologique du mélange eau-huile : application à la lubrification.," in Journées Francophones de Tribologie JFT'2009, Compiègne, France, 2009
- D6. J. Bouyer, M. Fillon, and V. Valle, "Stick-slip phenomenon induced by friction in a plain journal bearing during start-up.," in 4th World Tribology Congress 2009, Kyoto, Japon, p. 101, 2009
- D7. M. Kasai, M. Fillon, and J. Bouyer, "Influence of lubricants in plain bearing performance part i : Evaluation of bronze and babbitted bearing performance with a base oil.," in 4th World Tribology Congress 2009, Kyoto, Japon, p. 302, 2009
- D8. M. Kasai, M. Fillon, and J. Bouyer, "Influence of lubricants on plain bearing performance - part ii : Evaluation of bearing performance with polymer-containing oils.," in 37th Leeds-Lyon Symposium, Leeds, Royaume-Uni, 2010
- D9. Y. Henry, J. Bouyer, M. Fillon, and F. Delamour, "Experimental study of a hydrodynamic thrust bearing with a parallel flat surface.," in 38th Leeds-Lyon Symposium, Lyon, France, 2011
- D10. A. Cristea, J. Bouyer, M. Fillon, and M. Pascovici, "Experimental investigation of the operating characteristics of a circumferential groove journal bearing.," in ITC 2011, International Tribology Conference, Hiroshima, Japon, 2011
- D11. E. Harika, J. Bouyer, M. Fillon, and M. Hélène, "Influence of water-in-oil mixture as a lubricant on hydrodynamic bearing performance.," in ASME/STLE IJTC2012, Denver, USA, 2012
- D12. Y. Henry, J. Bouyer, and M. Fillon, "Experimental investigation on the thermal effects in a taper land thrust bearing.," in ASME/STLE IJTC2012, Denver, USA, pp. 1–3, 2012