

Equipe TriboLub

Publications et congrès

Période 2015/2020

Journaux / Revues¹

Articles scientifiques (132)

Les 20% les plus significatifs

2015

- ACL.C03.1. BALDUCCHI F., **ARGHIR M.**, GAUTHIER R. Experimental Analysis of the Unbalance Response of Rigid Rotors Supported on Aerodynamic Foil Bearings JOURNAL OF VIBRATIONS AND ACOUSTICS - TRANSACTIONS OF THE ASME, vol. 6, pp. 061014-01-061014-11, DOI : 10.1115/1.4031409, 2015
- ACL.C03.2. MIGOUT F., **BRUNETIERE N.**, **TOURNERIE B.** Study of the fluid film vaporization in the interface of a mechanical face seal TRIBOLOGY INTERNATIONAL, vol. 92, pp. 84-95, DOI : 10.1016/j.triboint.2015.05.029, 2015
- ACL.C03.3. COBLAS D., **FATU A.**, MAOUI A., **HAJJAM M.** Manufacturing textured surfaces: State of art and recent developments PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART J- JOURNAL OF ENGINEERING TRIBOLOGY, vol. 229, pp. 3-29, DOI : 10.1177/1350650114542242, 2015
- ACL.C03.4. M. TARGAOUI, **D. SOUCHET**, *F. BOUYAHIA* "On the Hydrodynamic Sealing in Lubricated Viscoseals", Tribology Transaction, 58:3, pp. 527-536, 2015doi : 10.1080/10402004.2014.986698

2016

- ACL.C03.5. **ZEGHLOUL T.**, **DASCALESCU L.**, *ROUAGDIA K.*, FATIHOU A., **RENOUX P.**, **SOUCHET D.** Sliding conformal contact tribocharging of polymeric materials IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS vol. 52, pp. 1808-1813, DOI : 10.1109/TIA.2015.2493065, 2016
- ACL.C03.6. GEHANNIN J., **ARGHIR M.**, **BONNEAU O.** A Volume of fluid method for air ingestion in squeeze film dampers TRIBOLOGY TRANSACTIONS, vol. 59, pp. 208-218, DOI : 10.1080/10402004.2015.1023409, 2016
- ACL.C03.7. CRISTEA A. F., **BOUYER J.**, **FILLON M.**, *PASCOVICI M. D.* Transient Pressure and Temperature Field Measurements in a Lightly Loaded Circumferential Groove Journal Bearing from Startup to Steady- State Stabilization TRIBOLOGY TRANSACTIONS, vol. 60, pp. 1165-1167, DOI : 10.1080/10402004.2016.1241330, 2016
- ACL.C03.8. **FRANCISCO A.**, **BRUNETIERE N.** A hybrid method for fast and efficient rough surface generation PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART J- JOURNAL OF ENGINEERING TRIBOLOGY, vol. 230, pp. 747-768, DOI : 10.1177/1350650115612116, 2016

2017

- ACL.C03.9. *HU S.*, **BRUNETIERE N.**, *HUANG W.*, *LIU X.*, *WANG Y.* Bi-Gaussian surface identification and reconstruction with revised autocorrelation functions TRIBOLOGY INTERNATIONAL, vol. 110, pp. 185-194, DOI : 10.1016/j.triboint.2017.01.029, 2017
- ACL.C03.10. **ARGHIR M.**, MARIOT A. Theoretical Analysis of the Static Characteristics of the Carbon Segmented Seal JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME, vol. 139, pp. 062202--, DOI : 10.1115/1.4036272, 2017
- ACL.C03.11. *CINIERO A.*, **LE ROUZIC J.**, *BAIKIE L.*, *REDDYHOFF T.* The origins of triboemission -- Correlating wear damage with electron emission WEAR, vol. 374-375, pp. 113-119, DOI : 10.1016/j.wear.2017.01.013, 2017
- ACL.C03.12. **LE ROUZIC J.**, **ARGHIR M.** Experimental Analysis of Angled Injection Aerostatic Hybrid Bearings JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME, vol. 140, pp. 022504--, DOI : 10.1115/1.4037873, 2017
- ACL.C03.13. B. NEAGOE, *H.N. TEODORESCU*, Y. PRAWATYA, **L. DASCALESCU**, **T. ZEGHLOUL**, Experimental bench for studying the relation between the dynamic characteristics of the frictional motion and the electric potential at the surface of polymer slabs in sliding conformal contact, Tribol. Int. 111 (2017) 107–115. <https://doi.org/10.1016/j.triboint.2017.03.006>

¹ Doctorant (souligné), chercheur PPRIME (gras), partenaire indus. (pointillés), partenaire acad. (italique)

- ACL.C03.14. **ZEGHLOUL T., MEKHALEF A., RICHARD G., MEDLES K., DASCALESCU L.** Effect of particle size on the tribo-aero-electrostatic separation of plastics JOURNAL OF ELECTROSTATICS, vol. 88, pp. 24-28, DOI : doi.org/10.1016/j.elstat.2016.12.003, 2017

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- ACL.C03.15. **BRUNETIERE N.** A General Model for Liquid and Gas Lubrication, Including Cavitation JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME, vol. 140, pp. 021702--, DOI : 10.1115/1.4037355, 2018
- ACL.C03.16. **DEVILLE L., ARGHIR M.** Theoretical analysis of brush seals leakage using local computational fluid dynamics estimated permeability laws JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME, vol. 140, pp. 062803--, DOI : 10.1115/1.4038469, 2018
- ACL.C03.17. **TEODORESCU H. N., PRAWATYA Y., ZEGHLOUL T., DASCALESCU L.** Signal Processing and Error Reduction for Reciprocating Triboelectrometry PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, vol. 19, pp. 509-518, 2018
- ACL.C03.18. **JOLLY P., ARGHIR M., BONNEAU O., HASSINI M.** A. Experimental and Theoretical Rotordynamic Coefficients of Smooth and Round-Hole Pattern Water-Fed Annular Seals JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME, vol. 140, pp. 112501--, DOI : 10.1115/1.4040177, 2018
- ACL.C03.19. **ADJEMOUT M., BRUNETIERE N., BOUYER J.** Friction and Temperature Reduction in a Mechanical Face Seal by a Surface Texturing: Comparison between TEHD Simulations and Experiments TRIBOLOGY TRANSACTIONS, vol. 61, pp. ---, DOI : 10.1080/10402004.2018.1478053, 2018
- ACL.C03.20. **JARRAY M., SOUCHET D., HENRY Y., FATU A.** Sealing performance solution by means of a liquid-gas interface tracking approach: Application to viscoseals TRIBOLOGY INTERNATIONAL, vol. 119, pp. 329-336, DOI : 10.1016/j.triboint.2017.11.017, 2018

2019

- ACL.C03.21. **BRUNETIERE N., FRANCISCO A.** Lubrication Mechanisms Between Parallel Rough Surfaces TRIBOLOGY LETTERS, vol. 67, pp. 116--, DOI : 10.1007/s11249-019-1228-x, 2019
- ACL.C03.22. **TEODORESCU H. N., PRAWATYA Y., ZEGHLOUL T., DASCALESCU L.** Anisotropy of the triboelectric effects in polymeric slabs TRIBOLOGY INTERNATIONAL, vol. 136, pp. 496-507, DOI : 10.1016/j.triboint.2019.04.014, 2019 ELECTRINOV Program
- ACL.C03.23. **ARGHIR M., BENCHEKROUN O.** A new structural bump foil model with application from start-up to full operating conditions JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME, vol. 141, pp. 101017--, DOI : 10.1115/1.4044685, 2019
- ACL.C03.24. **D. BEKHOUCHE, A. BOUCHOUCHA, H. ZAIDI ;** Tribological Behavior of a Contact Pin on Cylinder CuSn7 Bronze Rubbing Against 20MnCr5 Steel in Dry Sliding with Electrical Current ; Journal of Mechanical Engineering. Vol 16(2) 109-128 (2019)
- ACL.C03.25. **PRAWATYA Y., SENOUCI K., ZEGHLOUL T., NEAGOE B., DASCALESCU L., MEDLES K.** Control Charts for Statistical Process Control of the Tribocharging of Polymer Slabs in Frictional Sliding Contact IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol. 55, pp. 5253-5260, DOI : 10.1109/TIA.2019.2923165, 2019

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- ACL.C03.26. **CUIS, ZHANG C., FILLON M., GU L.** Optimization performance of plain journal bearings with partial wall slip. TRIBOLOGY INTERNATIONAL, vol. 145, pp. 106137--, DOI : 10.1016/j.triboint.2019.106137, 2020
- ACL.C03.27. **PLANTEGENET T., ARGHIR M., HASSINI M. A., JOLLY P.** The Thermal Unbalance Effect Induced by a Journal Bearing in Rigid and Flexible Rotors: Experimental Analysis TRIBOLOGY TRANSACTIONS, vol. ---, pp. ---, DOI : 10.1080/10402004.2019.1658836, 2020
- ACL.C03.28. **KUNIK S., FATU A., BOUYER J., DOUMALIN P.** Numerical Experimental and numerical study of self-sustaining fluid films generated in highly compressible porous layers imbibed with liquids. Tribology International, Vol. 151, November, 106435, DOI 10.1016/j.triboint.2020.106435, 2020

Les 80% restants

2015

- ACL.C03.29. **FOUFLIAS D., CHARITOUPOULOS A., PAPADOPOULOS C. I., KAIKTSIS L., FILLON M.** Performance Comparison between Textured, Pocket and Tapered-land Sector-pad Thrust Bearings using CFD Thermohydrodynamic Analysis PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART J-JOURNAL OF ENGINEERING TRIBOLOGY, vol. 229, pp. 376-397, DOI : 10.1177/1350650114550346, 2015

- ACL.C03.30. LAVIE T., FRANCISCO A., FATU A., VILLECHAISE B. Multiobjective Optimization of Conrod Big-End Bearing Lubrication Using an Evolutionary Algorithm TRIBOLOGY TRANSACTIONS, vol. 58, pp. 490-499, DOI : 10.1080/10402004.2014.939795, 2015
- ACL.C03.31. ELGADARI M., FATU A., HAJJAM M. Shaft roughness effect on elasto-hydrodynamic lubrication of rotary lip seals: Experimentation and numerical simulation TRIBOLOGY INTERNATIONAL, vol. 88, pp. 218-227, DOI : <http://dx.doi.org/10.1016/j.triboint.2015.03.013>, 2015
- ACL.C03.32. REDDYHOFF T., DOBRE O., LE ROUZIC J., GOTZEN N. A., PARTON H., DINI D. Friction Induced Vibration in Windscreen Wiper Contacts JOURNAL OF VIBRATIONS AND ACOUSTICS - TRANSACTIONS OF THE ASME, vol. 137, pp. 041009-041009, DOI : 10.1115/1.4029987, 2015
- ACL.C03.33. GHERCA A., FATU A., HAJJAM M., MASPEYROT P. Effects of surface texturing in steady-state and transient flow conditions: Two-dimensional numerical simulation using a mass-conserving cavitation model PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART J- JOURNAL OF ENGINEERING TRIBOLOGY, vol. 229, pp. 505-522, DOI : 10.1177/1350650114546432, 2015
- ACL.C03.34. ARGHIR M., MARIOT A. About the Negative Direct Static Stiffness of Highly Eccentric Straight Annular Seals ASME JOURNAL OF GAS TURBINES AND POWER, vol. 137, pp. 082508-082508-9, DOI : 10.1115/1.4029624, 2015
- ACL.C03.35. BALDUCCHI F., ARGHIR M., GAUTHIER R. Experimental Analysis of the Dynamic Characteristics of a Foil Thrust Bearing JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME, vol. 137, pp. 021703-021703-9, DOI : 10.1115/1.4029643, 2015
- ACL.C03.36. HASSINI, M.A., ARGHIR M., A Simplified and Consistent Nonlinear Transient Analysis Method for Gas Bearing: Extension to Flexible Rotors ASME JOURNAL OF GAS TURBINES AND POWER, vol. 137, pp. 092502-092502-10, DOI : 10.1115/1.4029709, 2015
- ACL.C03.37. ARGHIR M., HASSINI M. A., BALDUCCHI F., GAUTHIER R. Synthesis of Experimental and Theoretical Analysis of Pneumatic Hammer Instability in an Aerostatic Bearing ASME JOURNAL OF GAS TURBINES AND POWER, vol. 138, pp. 021602-021602-8, DOI : 10.1115/1.4031322, 2015
- ACL.C03.38. MARIOT, A., ARGHIR M., HELIES P., DEHQUVE J. Experimental Analysis of Floating Ring Annular Seals and Comparisons with Theoretical Predictions ASME JOURNAL OF GAS TURBINES AND POWER, vol. 138, pp. 042503-042503-9, DOI : 10.1115/1.4031347, 2015
- ACL.C03.39. ADJEMOUT M., BRUNETIERE N., BOUYER J. Optimization of mesh density for numerical simulations of hydrodynamic lubrication considering textured surfaces PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART J-JOURNAL OF ENGINEERING TRIBOLOGY, vol. 208-210, pp. 1-10, DOI : 10.1177/1350650115574535, 2015
- ACL.C03.40. NYEMECK A. P., BRUNETIERE N., TOURNERIE B. A Mixed Thermoelastohydrodynamic Lubrication Analysis of Mechanical Face Seals by a Multiscale Approach TRIBOLOGY TRANSACTIONS, vol. 92, pp. 96-108, DOI : 10.1080/10402004.2015.1023407, 2015
- ACL.C03.41. FILLON M., WODTKE M., WASILCZUK M. Effect of the presence of the lifting pocket on the THD performance of a large tilting-pad thrust bearing FRICTION, vol. 3, pp. 274-9, DOI : 10.1007/s40544-015-0092-4, 2015
- ACL.C03.42. HENRY Y., BOUYER J., FILLON M. An experimental analysis of the hydrodynamic contribution of textured thrust bearings during steady state operation - Comparison with the untextured parallel surface configuration PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART J- JOURNAL OF ENGINEERING TRIBOLOGY, vol. 229, pp. 362-375, DOI : 10.1177/1350650114537484, 2015
- ACL.C03.43. TALA-IGHIL N., FILLON M. Surface texturing effect comparative analysis in the hydrodynamic journal bearings MECHANICS & INDUSTRY, vol. 16, pp. 302-1-302-12, DOI : 10.1051/meca/2015001, 2015
- ACL.C03.44. SOURON A., MERCERON G., BLONDEL C., BRUNETIERE N., COLYN M., HOFMAN-KAMINSKA E., BOISSERIE J. R. Three-dimensional Dental Microwear Texture Analysis and diet in extant Suidae (Mammalia: Cetartiodactyla) MAMMALIA, vol. 79, pp. 279-291, DOI : 10.1515/mammalia-2014-0023, 2015
- ACL.C03.45. B. Neagoe, Y. Prawatya, T. Zeghloul, D. Souchet, L. Dascalescu, "Laboratory bench for the characterization of triboelectric properties of polymers," Journal of Physics: Conference Series, vol. 646, no. 1, pp. 6–10, 2015, doi: 10.1088/1742-6596/646/1/012058
- ACL.C03.46. AYADI K., BRUNETIERE N., TOURNERIE B., MAOUL A. Experimental and numerical study of the lubrication regimes of a liquid mechanical seal TRIBOLOGY INTERNATIONAL, vol. 92, pp. 96-108, DOI : dx.doi.org/10.1016/j.triboint.2015.05.022, 2015
- ACL.C03.47. TALA-IGHIL N., FILLON M. A numerical investigation of both thermal and texturing surface effects on the journal bearings static characteristics TRIBOLOGY INTERNATIONAL, vol. 90, pp. 228-239, DOI : 10.1016/j.triboint.2015.02.032, 2015

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- ACL.C03.48. ELGADARI M., FATU A., HAJJAM M. Effect of grooved shaft on the rotary lip seal performance in transient condition: Elasto-hydrodynamic simulations TRIBOLOGY INTERNATIONAL, vol. 93, pp. 411-418, DOI : <http://dx.doi.org/10.1016/j.triboint.2015.09.031>, 2016

- ACL.C03.49. GHERCA A., **FATU A.**, **HAJJAM M.**, **MASPEYROT P.** Influence of surface texturing on the hydrodynamic performance of a thrust bearing operating in steady-state and transient lubrication regime *TRIBOLOGY INTERNATIONAL*, vol. 102, pp. 305-318, DOI : 10.1016/j.triboint.2016.05.041, 2016
- ACL.C03.50. ADJEMOUT M., **BRUNETIERE N.**, **BOUYER J.** Numerical analysis of the texture effect on the hydrodynamic performance of a mechanical seal *SURFACE TOPOGRAPHY: METROLOGY AND PROPERTIES*, vol. 4, pp. 1-14, DOI : 10.1088/2051-672X/4/1/014002 , 2016
- ACL.C03.51. AYADI K., **BRUNETIERE N.**, **TOURNERIE B.**, MAOUL A. Experimental Thermal Analysis of a Mechanical Face Seal *JOURNAL OF THERMAL SCIENCE AND ENGINEERING APPLICATIONS*, vol. 8, pp. ---, DOI : 10.1115/1.4033212, 2016
- ACL.C03.52. **BRUNETIERE N.**, **BAYADA G.** An artificial viscosity to model the effect of roughness *MECHANICS & INDUSTRY*, vol. 17, pp. 514--, DOI : 10.1051/meca/2015114, 2016
- ACL.C03.53. **HU S.**, **BRUNETIERE N.**, **HUANG W.**, **LIU X.**, **WANG Y.** Continuous separating method for characterizing and reconstructing bi-Gaussian stratified surfaces *TRIBOLOGY INTERNATIONAL*, vol. 102, pp. 454-462, DOI : 10.1016/j.triboint.2016.05.046, 2016
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- ACL.C03.56. **BRUNETIERE N.** Modelling of Reverse Flows in a Mechanical Seal *TRIBOLOGY ONLINE*, vol. 11, pp. 94-101, DOI : doi.org/10.2474/trol.11.94, 2016
- ACL.C03.57. **BRITO F. P.**, **MIRANDA A. S.**, **FILLON M.** Analysis of the Effect of Grooves in Single and Twin Axial Groove Journal Bearings under Varying Load Direction *TRIBOLOGY INTERNATIONAL*, vol. 103, pp. 609-619, DOI : 10.1016/j.triboint.2016.08.010, 2016
- ACL.C03.58. **ZEGHLOUL T.**, **TOUHAMI S.**, **RICHARD G.**, **MILOUDI M.**, **DAHOU O.**, **DASCALESCU L.** Optimal Operation of a Plate-Type Corona-Electrostatic Separator for the Recovery of Metals and Plastics from Granular Wastes *IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS*, vol. 52, pp. 2506-2512, DOI : 10.1109/TIA.2016.2533482, 2016
- ACL.C03.59. **MERCERON G.**, **RAMDARSHAN A.**, **BLONDEL C.**, **BOISSERIE J. R.**, **BRUNETIERE N.**, **FRANCISCO A.**, **GAUTIER D.**, **MILHET X.**, **NOVELLO A.**, **PRET D.** Untangling the environmental from the dietary : dust does not matter *PROCEEDINGS OF THE ROYAL SOCIETY B*, vol. 283, pp. 20161032--, DOI : 10.1098/rspb.2016.1032, 2016.
- ACL.C03.60. D. Bekhouche, A. Bouchoucha, **H. Zaidi**, Y. Mouadji Etude de l'influence du paramètre charge sur le comportement en frottement et usure du couple dynamique sec bronze-acier.. *Sciences & Technologie B – N°43*, (2016), pp 99-104.
- ACL.C03.61. **ELHADI A.**, **A. BOUCHOUCHA**, **H. ZAIDI**, **T. SCHMITT**; Study of Surface Wear and Damage Induced by Dry Sliding of Tempered AISI 4140 Steel against Hardened AISI 1055 Steel. *Tribology in Industry*. Vol. 38, No. 4 (2016) 475-485.

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- ACL.C03.62. JARRAY M., **SOUCHET D.**, **HENRY Y.**, **FATU A.** A finite element solution of the Reynolds equation of lubrication with film discontinuities: application to helical groove seals *IOP CONFERENCES SERIES : MATERIALS SCIENCE AND ENGINEERING*, vol. 174, pp. 012037--, DOI : 10.1088/1757-899X/174/1/012037, 2017
- ACL.C03.63. **SOUCHET D.**, JARRAY M., **FATU A.** Performance characteristics of viscoseals in laminar and turbulent flow regimes. *TRIBOLOGY INTERNATIONAL*, vol. 114, pp. 152-160, DOI : 10.1016/j.triboint.2017.04.025, 2017
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- ACL.C03.68. HU S., **BRUNETIERE N.**, HUANG W., LIU X., WANG Y. The bi-Gaussian theory to understand sliding wear and friction TRIBOLOGY INTERNATIONAL, vol. 114, pp. 186-191, DOI : 10.1016/j.triboint.2017.04.028, 2017
- ACL.C03.69. HU S., **BRUNETIERE N.**, HUANG W., LIU X., WANG Y. Evolution of bi-Gaussian surface parameters of silicon-carbide and carbon-graphite discs in a dry sliding wear process TRIBOLOGY INTERNATIONAL, vol. 112, pp. 75-85, DOI : 10.1016/j.triboint.2017.03.011, 2017
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- ACL.C03.71. MERCERON G., BLONDEL C., **BRUNETIERE N.**, FRANCISCO, A., GAUTIER, D., RAMDARSHAN, A., "Dental microwear and controlled food testing on sheep: The TRIDENT project, BIOSURFACE AND BIOTRIBOLOGY , vol. 3, pp. 174-183, DOI: 10.1016/j.bsbt.2017.12.005 ,2017
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- ACL.C03.74. Corrigendum on CRISTEA A.F., **BOUYER J.**, **FILLON M.**, PASCOVICI M.D. Transient pressure and temperature field measurements in a lightly loaded circumferential groove journal bearing from startup to steady-state stabilization TRIBOLOGY TRANSACTIONS, vol. 60, pp. 1165-1167, DOI : 10.1080/10402004.2016.1263492, 2017
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