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Ph. D (1994 – 2000): Indian Institute of Technology Delhi, INDIA

Thesis: Theoretical and Experimental investigations on stability and cavitation of hydrodynamic bearings

Research Interests

Tribology, Hydrodynamic Lubrication, Fluid Film Bearings, Rotor Dynamics

Memberships in Professional Bodies

Member, 58902, STLE, 2011 – Present.

Life Member, L 1311, MYTRIBOS

Life Member, LM 3481, TSI

Research Funding

1. FRGS – MOHE, 2011-2013, Modeling of Slider and Journal Bearings With Textured Partial Slip Surface, Amount Secured: RM 39,400, Members: Assoc Prof Dr A M A Rani, Prof Dr T Nagarajan, Assoc Prof Dr F M Hashim
2. ERGS – MOHE, 2011-2013, Exploring for the Improved Performance of Hydrodynamic Journal Bearing Using Lubricants Blended With Polymer additives, Amount Secured: RM 37,000, Members: Assoc Prof Dr A M A Rani, Prof Dr T Nagarajan, Assoc Prof Dr F M Hashim
3. FRGS – MOHE, 2013-2015, Modeling of Slider and Journal Bearings With Textured Partial Slip Surface Lubricated with non-Newtonian Fluids, Amount Secured: RM 37,500, Members: Assoc Prof Dr A M A Rani, Prof Dr T Nagarajan, Assoc Prof Dr F M Hashim

Selected Publications

1. T. V. V. L. N. Rao, A. M. A. Rani, T. Nagarajan, F. M. Hashim "Analysis of Couple Stress Fluid Lubricated Partially Textured Slip Slider and Journal Bearing using Narrow Groove Theory", Tribology International, Vol. 69, 2014, pp. 1-9
2. T. V. V. L. N. Rao, A. M. A. Rani, T. Nagarajan, F. M. Hashim "Analysis of Journal Bearing with Double-Layer Porous Lubricant Film: Influence of Surface Porous Layer Configuration", STLE Tribology Transactions, Vol. 56, No. 5, 2013, pp. 841-847
3. T. V. V. L. N. Rao, A. M. A. Rani, T. Nagarajan, F. M. Hashim "Analysis of Slider and Journal Bearing using Partially Textured Slip Surface", Tribology International, Vol. 56, 2012, pp. 121-128.
4. T. V. V. L. N. Rao "Stabilization of Journal Bearing using Two-layered Film Lubrication" ASME Journal of Tribology, Vol. 134, No. 1, 2012, 014504.
5. T. V. V. L. N. Rao "Analysis of single-grooved slider and journal bearing with partial slip surface" ASME Journal of Tribology, Vol. 132, No. 1, 2010, 014501.

Journal Reviews

ASME Journal of Tribology, STLE Tribology Transactions, Tribology International, Meccanica, Proceedings of IMechE: Journal of Mechanical Engineering Science, International Journal of Acoustics and Vibration, Advances in Mechanical Engineering, International Journal of Rotating Machinery