*王能治教授

所有發表期刊論文

- 1. Han, Y.-F., Chan, C.-W., Wang, Z., Shi, F., Wang, J., Wang, N., Wang, Q. J. (2014), "Effects of Shaft Axial Motion and Misalignment on the Lubrication Performance of Journal Bearings via a Fast Mixed-EHL Computing Technology," Tribology Transactions, Accepted author version posted online: 01 Oct 2014. (SCI)
- 2. <u>Wang, N.</u>, Cha, K.-C., Huang, H.-C., Hsu, C.-R. (2014), "Effect of CPU Cache Size on OpenMP Computing Performance in Fluid-Film Lubrication Analysis," Journal of Mechanics, DOI: http://dx.doi.org/10.1017/jmech.2014.54, Published online: 12 August 2014. NSC 101-2221-E-182-023 (SCI).
- 3. Cha, K.-C., <u>Wang, N.</u>, and Liao, J.-Y. (2014), "Dynamics and Cutting stability of Dynamically Loaded Worktable Subjected to Elastic Supports," Journal of Marine Science and Technology, 22, 247-258. (SCI)
- 4. Cha, K.-C., <u>Wang, N.</u>, and Liao, J.-Y. (2014), "Dynamics and Cutting Stability of the Dynamically Loaded Worktable Subjected to Simply Supported Conditions," International Journal of Advanced Manufacturing Technology, 71, 605-620. (SCI)
- 5. Chan, C.-W., Han, Y.-F., Wang, Z., Wang, J., Shi, F., Wang, N., Wang, Q. J. (2014), "Exploration on a Fast EHL Computing Technology for Analyzing Journal Bearings with Engineered Surface Textures," Tribology Transactions, 57, 206-215. (SCI)
- 6. <u>Wang, N.</u>, Huang, H.-C., and Hsu, C.-R. (2013), "Parallel Optimum Design of Foil Bearing Using Particle Swarm Optimization Method," Tribology Transactions, 56, 453-460. NSC 101-2221-E-182-023 (SCI)
- 7. Cha, K.-C., <u>Wang, N.</u>, and Liao, J.-Y. (2013), "Stability Analysis for the Crankshaft Grinding Machine Subjected to a Variable-Position Worktable," International Journal of Advanced Manufacturing Technology, 67, 501-516. (SCI/EI) NSC 99-2221-E-182-022 (SCI)
- 8. <u>Wang, N.</u>, and Chang, S.-H. (2012), "Parallel Iterative Solution Schemes for the Analysis of Air Foil Bearings," Journal of Mechanics, 28(3), 413-422. NSC 99-2221-E-182-014 (SCI)
- 9. <u>Wang, N.</u>, Cha, K.-C., and Huang, H.-C. (2012), "Fast Convergence of Iterative Computation for Incompressible-Fluid Reynolds Equation," ASME Transactions, Journal of Tribology, 134, 024504-1~4. NSC 100-2221-E-182-033 (SCI)
- 10. <u>Wang, N.</u>, Chan, C.-W., and Cha, K.-C. (2012), "Workstation Computing of Discretized Reynolds Equations," Tribology Transactions, 55, 288-296. NSC 100-2221-E-182-033 (SCI)

- 11. <u>Wang, N.</u>, Chang, S.-H., and Huang, H.-C. (2011), "Comparison of Iterative Methods for the Solution of Compressible-Fluid Reynolds Equation," ASME Transactions, Journal of Tribology, 133, 021702-1~7. NSC 99-2221-E-182-014 (SCI)
- 12. Cha, K.-C., <u>Wang, N.</u>, and Liao, J.-Y. (2011), "Dynamics and Stability Analysis of the Simplified Model for the Surface Grinder in Various Worktable Positions," Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 225(3), 220-234. NSC 99-2221-E-182-022 (SCI)
- 13. <u>Wang, N.</u>, and Cha, K.-C. (2010), "Multi-Objective Optimization of Air Bearings using Hypercube-Dividing Method," Tribology International, 43(9), 1631-1638. NSC 97-2221-E- 182-047-MY2 (SCI)
- 14. <u>Wang, N.</u>, Chang, S.-H., and Huang, H.-C. (2010), "Stopping Criterion in Iterative Solution Methods for Reynolds Equations," Tribology Transactions, 53(5), 739-747. NSC 97-2221-E- 182-047-MY2 (SCI)
- 15. <u>Wang, N.</u>, Tsai, C.-M., and Cha, K.-C. (2009), "Optimum Design of Externally Pressurized Air Bearing Using Cluster OpenMP," Tribology International, 42(8), 1180-1186. NSC 96-2221-E- 182-037 (SCI)
- 16. Wang, N., Tsai, C.-M., and Cha, K.-C. (2009), "A Study of Parallel Efficiency of Modified DIRECT Algorithm Applied to Thermohydrodynamic Lubrication," Journal of Mechanics, 25(2), 143-150. NSC 95-2221-E-182-013 (SCI)
- 17. Tsai, C.-M., and Wang, N. (2008), "An Efficient Global Optimization Algorithm for Multifactor Dynamic Systems," Journal of Chinese Institute of Engineers, 31(6), 933-941. (SCI/EI)
- 18. Chan, C.-W., <u>Wang, N.</u>, and Cha, K.-C. (2007), "A Parametric Study of Artificial Neural Network as a Surrogate Model," Journal of Biomechanics, 40(S2), S565. (SCI/EI)
- 19. <u>Wang, N.</u>, Chang, S.-H., and Cha, K.-C. (2007), "An Application of Multi-Thread Computing to Heel-Toe Running Optimization," Journal of Biomechanics, 40(S2), S566. (SCI/EI)
- 20. <u>Wang, N.</u>, and Tsai, C.-M. (2006), "Application of Thread-Level Parallel Programming to Thermohydrodynamic Lubrication Computation," Tribology Transactions, 49(4), 473-481. NSC 93-2212-E-182-003 (SCI/EI)
- 21. <u>Wang, N.</u> (2005), "Multi-criterion Optimization for Heel-Toe Running," Journal of Biomechanics, 38(8), 1712-1716. (SCI/EI)
- 22. <u>Wang, N.</u> (2005), "A Parallel Computing Application of the Genetic Algorithm for Lubrication Optimization," Tribology Letters, 18(1), 105-112. NSC 93-2212-E-182-003 (SCI)
- 23. <u>Wang, N.</u>, and Yen, M.-L. (2005), "A Parametric Study of an Open Source Distributed Computing Environment for Tribological Studies," Tribology Transactions, 48 (1), 1-8. NSC 93-2212-E-182-003 (SCI/EI)

- 24. <u>Wang, N.</u>, and Chen, L.-W. (2005), "A Divide-and-Conquer Parallel Computing Scheme for the Optimization Analysis of Tribological Systems," Tribology & Lubrication Technology, 61(1), 38-46. NSC 92-2218-E-182-009 (SCI)
- 25. Wang, N., and Liu, Y.-H. (2004), "Applications of Taguchi's Design of Experiments to the Study of Biomechanics Systems," Journal of Applied Biomechanics, 20(3), 219-229. (SCI/EI)
- 26. Wang, N., and Chang, Y.-Z. (2004), "Application of the Genetic Algorithm to the Multi-objective Optimization of Air Bearings," Tribology Letters, 17(2), 119-128. (SCI)
- 27. <u>Wang, N.</u>, and Chen, L.-W. (2004), "A Divide-and-Conquer Parallel Computing Scheme for the Optimization Analysis of Tribological Systems," Tribology Transactions, 47(3), 313-320. NSC 92-2218-E-182-009 (SCI/EI)
- 28. <u>Wang, N.</u>, Chang, Y.-Z. and Tsai, C.-M. (2004), "The Application of Nearly Embarrassingly Parallel Computation in the Optimization of Fluid-Film Lubrication," Tribology Transactions, 47(1), 34-42. NSC 92-2218-E-182-009 (SCI/EI)
- 29. <u>Wang, N.</u>, and Chang, Y.-Z. (2002), "A Hybrid Search Algorithm for Porous Air Bearings Optimization," Tribology Transactions, 45(4), 471-477. (SCI/EI)
- 30. <u>Wang, N.</u>, and Kong, P.-H. (2001), "A Simulated Air Bearing Analysis by Design of Experiments and Its Applications in Optimization," Tribology Transactions, 44(4), 597-602. NSC 90-2212-E-182-008 (SCI/EI)
- 31. <u>Wang, N.</u>, Tung, S.-W., and Cha, K.-C. (2001), "Applications of Unconstrained Minimization Methods to the Dynamic Analysis of Air-Lubricated Bearings," Tribology Transactions, 44(2), 159-166. NSC 90-2212-E-182-001 (SCI/EI)
- 32. <u>Wang, N.</u>, Cha, K.-C., and Hsu, C.-L. (2000), "Numerical Optimization of Load Capacity of Slider Bearings," Journal of the Chinese Society of Mechanical Engineers, 21(6), 611-616. (SCI/EI)
- 33. Wang, N., Ho., C.-L., and Cha, K.-C. (2000), "Engineering Optimum Design of Fluid-Film Lubricated Bearings," Tribology Transactions, 43(3), 377-386. (SCI/EI)
- 34. Wang, N., and Chang, C. (1999), "An Application of Newton's Method to the Lubrication Analysis of Air-Lubricated Bearings," Tribology Transactions, 42(2), 419-424. (SCI/EI)
- 35. Wang, N., and Seireg, A. (1995), "Empirical Prediction of the Shear Layer Thickness in Lubricating Films," ASME Transactions, Journal of Tribology, 117, 444-449. (SCI/EI)
- 36. <u>Wang, N.</u>, and Seireg, A. (1994), "Thermohydrodynamic Lubrication Analysis Incorporating Thermal Expansion across the Film," ASME Transactions, Journal of Tribology, 116, 681-689. (SCI/EI)

37. 黄華志、 $\underline{$ 王能治 (2014),液靜壓軸頸軸承的多目標最佳化設計,工業技術研究院,機械工業 (Journal of the Mechatronic Industry),372期,104-115。