

PUBLICATIONS: A. Refereed Archival Journals

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2. Longoria, J.J. Beaman and R.W. Miksad, "An Experimental Investigation of Forces Induced on Cylinders by Random Oscillatory Flow," *Journal Of Offshore Mechanics And Arctic Engineering (ASME)*, Vol. 113, November 1991, No. 4, pp. 275–285
3. Longoria, R.G., R.W. Miksad and J.J. Beaman, "Frequency Domain Modeling of Inline Forces on Circular Cylinders in Random Oscillatory Flow," *Journal Of Offshore Mechanics And Arctic Engineering (ASME)*, Vol. 115, February 1993, No. 1, pp. 23–30
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5. Longoria, R.G., "Wave-Scattering Formalisms for Multiport Energetic Systems," *Journal Of The Franklin Institute*, Vol. 333(B), 1996, No. 4, pp. 539–564
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13. Longoria, R.G., A. Al-Sharif, and C. Patil, "Scaled Vehicle System Dynamics and Control: A Case Study on Anti-Lock Braking," *International Journal Of Vehicle Autonomous Systems*, Vol. 2, 2004, No. 1/2, pp. 18–39
14. Campos, J., Crawford, M., Longoria, R., "Rotordynamic Modeling Using Bond Graphs: Modeling the Jeffcott Rotor," *IEEE Transactions On Magnetics*, Vol. 41, 2005, No. 1, pp. 274–280
15. Wang, J., Longoria, R.G., "Effect of Computational Delay on the Performance of a Hybrid Adaptive Cruise Control System, 2006-01-0800," *Journal Of Passenger Cars - Electronic & Electrical Systems (SAE)*, Vol. 115, 2006, pp. 307–316

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17. Wang, J., Longoria, R.G., “Coordinated and Reconfigurable Vehicle Dynamics Control,” *IEEE Transactions On Control System Technology*, Vol. 17, 2008, No. 3, pp. 723-732.
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B. Refereed Conference Proceedings

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4. Paynter, H.M. and R.G. Longoria, “Simulation of Nonlinear Poisson Problems from Black Holes to Nuclei: I. Introducing the Successive Simulation Perturbation Technique,” *Proceedings Of The IMACS Symposium On Systems Analysis And Simulation*, Berlin, June 26-3 0, 1995
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11. Longoria, R.G., “Resistance in Unsteady Flow: Search for a Physics-Based Model,” *Proceedings Of The 22nd Symposium On Naval Hydrodynamics*, Washington, D.C., August 9-14, 1998, (Invited Discussion)

12. Connolly, T.J. and R.G. Longoria, "Simulation-Based Synthesis for Engineering Systems that Contain Active Elements," Automated-Modeling Symposium, International Mechanical Engineering Congress And Exhibition (IMECE), Orlando, FL, November 5-10, 2000
13. Efatpenah, J.H. Beno, S. Nichols, and R.G. Longoria, "Challenges in Controlling Active Suspension in High Speed Vehicles," International Mechanical Engineering Congress And Exhibition (IMECE), Orlando, FL, November 5-10, 2000
14. Kiritsis, N., R.G. Longoria and R. Gonzales, "Network Thermodynamic Bond Graph Models for Microdialysis Probe Processes," International Conference On Bond Graph Modeling And Simulation, Phoenix, AZ, January 2001
15. Zhang, Fu, R.G. Longoria, R. Thelen, and D. Wardell, "A Simulation-Based Design Study for a Locomotive Electric," 7th International Conference On Modeling And Simulation Of Electric Machines, Converters And Systems, Montreal, Canada, August 18-21, 2002
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17. Wangcharoenrung, C. and R.G. Longoria, "A Bond Graph Model of Outer Hair Cell Active Force Generation," International Conference On Bond Graph Modeling And Simulation (ICBGM) 2003, Orlando, FL, published by Society for Computer Simulation, January 2003
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20. Campos, J., Longoria, R.G., and Surls, D., "Rotordynamic Modeling Using Bond Graphs: Modeling the Jeffcott Rotor," Electromagnetic Launch Technology Symposium, Snowbird, Utah, published by IEEE, 2004
21. Juarez, J., Longoria, R.G., "Bond Graph C-Field Representations for Tug & Twist Pneumatic Polymeric Actuator Technology," International Conference On Bond Graph Modeling, New Orleans, LA, 2005
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28. Wang, J., Solis, J.M., Longoria, R.G., "On the Control Allocation for Coordinated Ground Vehicle Dynamics Control," American Control Conference, New York, NY, pp 5724-5729, 2007
29. Patil, C.B., S.V. Sreenivasan, and R.G. Longoria, "Analytical Representation of Nanoscale Parasitic Motion in Flexure-based One DOF Translation Mechanism," Proceedings of the 21st Annual Meeting, American Society for Precision Engineering, Dallas, Texas, October 16-17, 2007.
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