

Publications:

1. **S. Adewusi**, "[Detection of Rotating Blade Faults from Lateral Vibrations of a Rotor-Disk-Blade System](#)" *ASME 2015 International Design Engineering Technical Conferences and Computers & Information in Engineering Conference*, August 2-5, 2015, Boston, MA, USA. Volume 8: 27th Conference on Mechanical Vibration and Noise DETC2015-46567, V008T13A066; 8 pages, doi:10.1115/DETC2015-46567.
2. **S. A. Adewusi** and B. O. Al-Bedoor, "[Experimental Study on the Vibration of An Overhung Rotor with A Propagating Transverse Crack](#)" *Shock and Vibration Journal*. **9**(3), **2002**, 91-104. [Google Scholar Citations](#): 20.
3. **S. A. Adewusi** and B. O. Al-Bedoor, "[Wavelet Analysis of Vibration Signals of An Overhang Rotor with A Propagating Transverse Crack](#)" *Journal of Sound and Vibration*. **246**(5), **2001**, 777-793. [Google Scholar Citations](#):78.
4. B. O. Al-Bedoor, Y. Al-Nassar, L. Ghouti, **S. A. Adewusi** and M. Abdlsamad. "[Shaft Lateral and Torsional Vibration Responses to Blade\(s\) Random Vibration Excitation](#)" *Arabian Journal for Sci. & Engr.* **29**(1c), **2004**, 39-67. [Google Scholar Citations](#): 3.
5. B. O. Al-Bedoor, L. Ghoutti, **S. A. Adewusi**, Y. Al-Nassar and M. Abdulsamad "[Experiments on the Appearance of Blade Vibration Signature in Shaft Torsional Vibration Signals](#)" *Journal of Quality in Maintenance Engineering*, **9**(2), **2003**, 144-159. [Google Scholar Citations](#): 8.
6. **S. A. Adewusi** and B. O. Al-Bedoor "[Detection of Propagating Cracks in Rotors Using Neural Networks](#)" *Proceedings of 2002 ASME Pipe and Component Analysis and Diagnosis Conference*, Vancouver, Canada, PVP-Vol. **447**, 71-78. [Google Scholar Citations](#): 9.
7. **S. A. Adewusi** and B. O. Al-Bedoor, "Application of Wavelet Transformation in the Analysis of Vibration Signals" *Proceedings of 2001 ASME Pressure Vessel and Piping Conference*, Hyatt Regency Atlanta, Georgia. USA, PVP-Vol. **426**, 183-191. [Google Scholar Citations](#): 1.
8. M. Sunar, **S. Adewusi** and J. Bakhshwain "An Experimental and Theoretical Study for the Effect of Placement on the Response of Piezoelectric Sensors" *Proceedings of 1st International Conference on Applications of Traditional and High Performance Materials in Harsh Environments*. UAE, January 20-22, **2004**.
9. B. O. Al-Bedoor, Y. Al-Nassar, **S. A. Adewusi** and L. Ghouti "[Identifying Rotating Blades Vibration from the Shaft Torsional Vibration Signals](#)" *Proceedings of 2003 ASME Pressure Vessel and Piping Conference*, Cleveland, Ohio, USA, PVP-Vol. **468**, 225-231. [Google Scholar Citations](#): 1.
10. S. A. Adewusi, "Detection of a Transverse Crack in a Rotating Shaft using Wavelet Analysis" M.Sc. Thesis, King Fahd University of Petroleum and Minerals, Saudi Arabia, May 2000.
11. **S. Adewusi**, M. Thomas, V. H. Vu and W. Li "[Modal Parameters of the Human Hand-arm using Finite Element and Operational Modal Analysis](#)" *Mechanics & Industry*, 15(6), **2014**, 541-549 (DOI: 10.1051/meca/2014060). [Google Scholar Citations](#): 5.

12. S. Adewusi., M. Thomas and V. H. Vu, "[Natural Frequencies of the Human Hand-Arm System using Finite Element Method and Experimental Modal Analysis](#)" *TSEST Transaction on Control and Mechanical Systems*", Vol. 3(2), 2014, 11-18. [Google Scholar Citations](#): 1.
13. **S. Adewusi**, S. Rakheja, and P. Marcotte, "[Biomechanical Models of the Human Hand-arm to Simulate Distributed Biodynamic Responses for Different Postures](#)" *International Journal of Industrial Ergonomics* **42**, **2012**, 249-260. [Google Scholar Citations](#): 23.
14. **S. A. Adewusi**, S. Rakheja, P. Marcotte and P.-E. Boileau, "[On the Discrepancies in the Reported Human Hand-arm Impedance at Higher Frequencies](#)", *International Journal of Industrial Ergonomics* **38**, **2008**, 703-714. [Google Scholar Citations](#):16.
15. **S. A. Adewusi** and Syed M. Zubair "[Second-Law-Based Thermodynamic Analysis of Ammonia-Water Absorption Systems](#)" *Energy Conversion and Management* **45**, **2004**, 2355-2369. [[Ranked 23rd of the Top 25 Hottest Articles at Science Direct](#)]. [Google Scholar Citations](#): 77.
17. **S. Adewusi**, M. Thomas and V. Hung, "[Natural Frequencies of the Hand-arm System using Finite Element Method](#)" , *Proceedings of 4th American Conference on Human Vibration*, Hartford, Connecticut, USA, June 12-15, 2012, 17-18. [Google Scholar Citations](#): 4.
18. P. Marcotte, **S. Adewusi** and S. Rakheja, "[Development of a Low-cost System to Evaluate Coupling Forces on Real Power Tool Handles](#)" *Proceedings of 12th International Conference on Hand-arm Vibration, Ottawa, Canada, Canadian Acoustics*, 39(2), 2011, 36-37. [Google Scholar Citations](#): 5.
19. **S. A. Adewusi**, S. Rakheja and P. Marcotte, "[Biodynamic Model of the Hand-arm System to Simulate Distributed Biodynamic Responses](#)", *Proceedings of 3rd American Conference on Human Vibration*, Iowa City, Iowa, USA, June 1-4, **2010**, 56 -57.
20. P. Marcotte, **S. Adewusi**, J. Boutin, H. Nélisse, S. Rakheja, P-É. Boileau, "Modeling the Contributions of Handle Dynamics on the Biodynamic Response of the Human Hand-Arm System" *Proceedings of 11th International Conference on Hand-Arm Vibration*, Bologna, Italy June 3-7, **2007**, 321 - 326. [Google Scholar Citations](#): 2.
21. M. Kalra, S. Rakheja, P. Marcotte, K.N. Dewangan and **S. Adewusi** "[Measurement of coupling forces at the power tool handle-hand interface](#)" *International Journal of Industrial Ergonomics*, 50, **2015**, 105-120. [Google Scholar Citations](#): 1.
22. M. Kalra, S. Rakheja, P. Marcotte, K.N. Dewangan and **S. Adewusi** "[Feasibility analysis of low-cost flexible resistive sensors for measurements of driving point mechanical impedance of the hand-arm system](#)" *International Journal of Industrial Ergonomics*, 49, **2015**, 44-52
23. **S. Adewusi**, S. Rakheja, P. Marcotte and M. Thomas "[Distributed vibration power absorption of the human hand-arm system in different postures coupled with vibrating handle and power tools](#)" *International Journal of Industrial Ergonomics*, 43, **2013**, 363 - 374. [Google Scholar Citations](#): 5.

24. **S. A. Adewusi**, S. Rakheja, P. Marcotte and J. Boutin “[Vibration Transmissibility Characteristics of the Human Hand-arm System under different Postures, Hand Forces and Excitation Levels](#)”, *Journal of Sound and Vibration* **329**, **2010**, 2953 – 2971. [Google Scholar Citations](#): 30.
25. **S. A. Adewusi**, S. Rakheja, P. Marcotte and P.-E. Boileau, “[Posture Effect on Vibration Transmissibility of the Hand-arm](#)”, *Proceedings of 2nd American Conference on Human Vibration*, Chicago, IL, USA, June 4-6, **2008**, 76 – 77. [Google Scholar Citations](#): 1.
26. **S. Adewusi**, S. Rakheja, P. Marcotte, P-E. Boileau and J. Boutin, “[On the Resonant Frequencies of the Human Hand-arm System](#)” *Proceedings of 11th International Conference on Hand-Arm Vibration*, Bologna, Italy June 3-7, **2007**, 341 - 348. [Google Scholar Citations](#): 1.
27. **S. Adewusi**, S. Rakheja and P. Marcotte, “[Analyses of Distributed Absorbed Power Responses of the Human Hand-arm System in the Bent- and Extended-arm Postures](#)” *Proceedings of 12th International Conference on Hand-arm Vibration, Ottawa, Canada Canadian Acoustics*, 39(2), 2011, 50-51.
28. S. A. Adewusi, “Distributed Biodynamic Characteristics of the Human Hand-arm System Coupled with Vibrating Handles and Power Tools” Ph.D. Dissertation, Concordia University, Canada, 2009.
29. S. A. Adewusi, “Stability of a Cantilevered Flexible Pipe Conveying a Flowing Fluid” Term Project in Aeroelasticity Course, Concordia University, Canada, 2004.