

## Publications:

1. Khan, O. U., **Jamal, A.**, Arshad, G. M., Arif, A. F. M. and Zubair, S. M., “Thermal Analysis of a Cold Rolling Process – A Numerical Approach”, *Numerical Heat Transfer, Part A*, Vol. 46, pp. 613-632, (2004).
2. El-Shaarawi, M. A. I., Mokheimer, E. M. A. and **Jamal, A.**, “Conjugate Effects on Steady Laminar Natural Convection Heat Transfer in Vertical Eccentric Annuli”, *International Journal for Computational Methods in Engineering Science and Mechanics*, Vol. 6, No. 4, pp. 235-250, (2005).
3. El-Shaarawi, M. A. I., Mokheimer, E. M. A., and **Jamal, A.**, “Geometry Effects on Steady Laminar Natural Convection Heat Transfer in Vertical Eccentric Annuli”, *International Journal of Numerical Methods for Heat and Fluid Flow*, Vol. 17, No. 5, pp. 461-493, (2007).
4. Shuja, S.Z., Yilbas B.S., and **Jamal A.**, “Entropy Generation in Flow Field Subjected to a Porous Block in a Vertical Channel”, *International Journal on Transport in Porous Media*, Vol. 72, pp. 179-197, (2008).
5. **Jamal, A.**, El-Shaarawi, M. A. I., and Mokheimer, E. M. A., “Critical Conductivity Ratio and Wall Thickness for Conjugate Natural Convection Heat Transfer in Vertical Eccentric Annuli”, *Numerical Heat Transfer, Part A: Applications*, Vol. 59, No. 9, pp. 719-737, (2011).
6. El-Shaarawi, M. A. I., Mokheimer, E. M. A. and **Jamal, A.**, “Numerical Investigation of Conjugate Natural Convection Heat Transfer in Vertical Eccentric Annuli”, *Proceedings of the 4<sup>th</sup> International Conference on Computational Heat and Mass Transfer (ICCHMT 2005)*, Paris-Cachan, France, Vol. 1, May 2005.
7. El-Shaarawi, M. A. I., Mokheimer, E. M. A. and **Jamal, A.**, “Geometry Effects on Critical Conductivity Ratio and Wall Thickness for Conjugate Natural Convection in Eccentric Annuli”, *Proceedings of the 13<sup>th</sup> International Heat Transfer Conference (IHTC 2006)*, Sydney, Australia, August 2006.
8. **Jamal, A.**, El-Shaarawi, M. A. I., and Mokheimer, E. M. A. “Effect of Thermal Boundary Conditions on Conjugate Natural Convection Flow in Vertical Eccentric Annuli”, *Proceedings of the 13<sup>th</sup> International Conference on Computational Methods and Experimental Measurements (CMEM 2007)*, Prague, Czech Republic, July 2007.
9. **Jamal, A.**, El-Shaarawi, M. A. I., and Mokheimer, E. M. A., “Effect of eccentricity on conjugate natural convection in vertical eccentric annuli”, *International Conference on Mechanical Engineering and Manufacturing (ICMEM 2013)*, Toronto, Canada, June 2013.
10. **Jamal, A.**, Païdoussis, M. P., and Mongeau, L. G., “Three-dimensional nonlinear cylinder dynamics in channel flow”, *4<sup>th</sup> Canadian Conference on Nonlinear Solid Mechanics (CanCNSM 2013)*, Montreal, Canada, July 2013.
11. **Jamal, A.**, Païdoussis, M. P., and Mongeau, L. G., “Linear and nonlinear dynamics of cantilevered cylinders in axial flow”, *ASME 2014 Pressure vessels & Piping Division Conference (PVP 2014)*, Anaheim, California, USA, July 2014.
12. **Jamal, A.**, Païdoussis, M. P., and Mongeau, L. G., “Finite Element Analysis of Cylinder Dynamics in Channel Flow”, *4<sup>th</sup> IT Symposium*, Jubail Industrial City, Saudi Arabia, May 2016.

13. Al-Garni, A. Z., **Jamal, A.**, Ahmad, A. M., Al-Garni, A. M. and Tozan, M., "Failure-Rate Prediction for De Havilland Dash-8 Tires Employing Neural-Network Technique", *AIAA Journal of Aircraft*, Vol. 43, No. 2, pp. 537-543 (2006).
14. Tozan, M., Al-Garni, A. Z., Al-Garni, A. M. and **Jamal, A.**, "Failure Distribution Modeling for Planned Replacement of Aircraft Auxiliary Power Unit Oil Pumps", *Maintenance Journal*, Vol. 19, No. 1, pp. 60-69, (2006).
15. Al-Garni, A. Z., **Jamal, A.**, Ahmad, A. M., Al-Garni, A. M. and Tozan, M., "Neural Network based Failure Rate Prediction for De Havilland Dash-8 Tires", *Elsevier Engineering Applications of Artificial Intelligence*, Vol. 19, pp. 681-691, (2006).
16. Al-Garni, A.Z., Tozan, M., Al-Garni, A. M. and **Jamal, A.**, "Failure Forecasting of Aircraft Air-Conditioning/Cooling Pack with Field Data", *AIAA Journal of Aircraft*, Vol. 44, No. 3, pp. 996-1002, (2007).
17. Al-Garni, A. Z. and **Jamal, A.**, "Artificial Neural Network Application of Modeling Failure Rate for Boeing 737 Tires", *Quality and Reliability Engineering International*, Vol. 27, No. 2, pp. 209-219, (2010).
18. Al-Garni, A.Z., Tozan, M., Al-Garni, A.M. and **Jamal, A.**, "Failure Data Analysis for Aircraft Maintenance Planning", *3<sup>rd</sup> Aircraft Engineering Symposium*, Jeddah, Saudi Arabia, November 2004.
19. Al-Garni, A. Z., **Jamal, A.**, Saeed, F. and Kassem, A. H., "Failure Rate Analysis of Boeing 737 Brakes Employing Neural Network", *Proceedings of the 7<sup>th</sup> AIAA Aviation Technology, integration, and Operations (ATIO) Conference*, Belfast, Northern Ireland, September 2007.