

List of publications for Dr. D. Mba

Edited proceedings

1. Proceedings of the 18th International Congress and Exhibition on Condition Monitoring and Diagnostic Engineering Management (COMADEM 2005), Cranfield, UK, August 31st – 2nd September 2005. (Edited by Mba, D and Rao, R.). ISBN 1871315913.

JOURNALS (refereed)

2. M. Elforjani, D. Mba, Detecting Natural Crack Initiation and Growth in Slow Speed Shafts with the Acoustic Emission Technology, **Engineering Failure Analysis, IN PRESS.**
3. S. Ali Mirhadizadeh, D. Mba, Observations of acoustic emission in a hydrodynamic bearing, **Journal of Quality in Maintenance Engineering (JQME)**, Volume 15 Issue 2, pp. 193-201, 2009
4. Oyedele Oluwaseun Oyekoya, D. Mba, Ali El-Zafrany, Structural integrity of functionally graded composite structure using Mindlin-type element, **Computer Modeling in Engineering & Sciences**, Vol. 34, No. 1, pp. 55-86, 2008.
5. S Al-lababidi, A Addali, H Yeung, D Mba and F Khan, Gas void fraction measurement in two-phase gas/liquid slug flow using acoustic emission technology, **Journal of Vibration and Acoustics, ASME, IN PRESS, 2009.**
6. M. Elforjani, D. Mba, Assessment of natural crack initiation and propagation in slow speed bearings, **Journal of Non-Destructive Evaluation, IN PRESS, 2009.** DOI: 10.1080/10589750802339687
7. Babak Eftekharnjad, D. Mba, Seeded fault detection on helical gears with Acoustic Emission, **Applied Acoustics, 70 Issue: 4 Pages: 547-555 Published: 2009.**
8. Wale, D., and Mba, D., NON-LINEARITY IN EXPERIMENTAL JOURNAL BEARING DYNAMICS - A NEW APPROACH, **Proc. IMechE, Part J: J. Engineering Tribology**, 2009, **223** (J2), 125-135. DOI 10.1243/13506501JET465
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11. Saad Al-Dossary, R.I. Raja Hamzah, D. Mba, Observations of changes in acoustic emission waveform for varying seeded defect sizes in a rolling element bearing, **Journal of Applied Acoustics, Vol. 70, No. 1, Jan 2009, p 58 – 81, ISSN 0003-682X**
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- HELICAL AND SPUR GEAR, **Tribology International**, Vol. 42, Iss. 1, 3-14, 2009
13. M. Elforjani, D. Mba, Natural mechanical degradation measurements in slow speed bearings, **Engineering Failure Analysis**, Volume 16, Issue 1, January 2009, Pages 521-532.
 14. Babak Eftekharnjad, D. Mba, ACOUSTIC EMISSION SIGNALS ASSOCIATED WITH DAMAGED HELICAL GEARS, **INSIGHT**, Volume: 50, Issue: 8, 450-453, Aug 2008.
 15. R.I. Raja Hamzah, D.Mba, ACOUSTIC EMISSION AND SPECIFIC FILM THICKNESS (λ) FOR SPUR GEARS, **INSIGHT**, Vol. 50, No. 11, 642-643, Nov 2008
 16. J. Couturier, D. Mba, operational bearing parameters and acoustic emission generation, **Journal of Vibration and Acoustics, ASME**, Vol 130, 024502, April 2008.
 17. M. Elforjani, D. Mba, Monitoring the onset and propagation of natural degradation process in a slow speed rolling element bearing with Acoustic Emissions, **ASME, Journal of Vibration and Acoustics**, 130, 041013 (2008).
 18. J.Z. Sikorska and D. Mba' Truth, Lies acoustic emission and process machines, **Journal of Mechanical Process Engineering, Part E, IMechE**, Volume 222, Number 1, 1-19, 2008. **INVITED PAPER**
 19. M. Elforjani, D. Mba, Detecting the onset, propagation and location of non-artificial defects in a slow rotating thrust bearing with Acoustic Emission, **INSIGHT**, Vol. 50 No 5, p 264 – 268, May 2008
 20. D. Mba, THE USE OF ACOUSTIC EMISSION FOR ESTIMATION OF BEARING DEFECT SIZE, **Journal of Failure Analysis and Prevention, American Society for Metals (ASM)**, Volume 8, Number 2 / April, 2008, 188-192.
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 22. R.I. Raja Hamzah, D.Mba, Acoustic Emission and specific film thickness for operating spur gears **Journal of Tribology, ASME**, Volume 129, Issue 4 , pp. 860-867 Oct 2007
 23. M. Leahy, D. Mba, P. Cooper, A. Montgomery, D. Owen, Acoustic Emission for the detection of shaft-to-seal rubbing in large power generation turbines, **Advanced Materials Research**, Vols. 13-14, pp 433-438. ISBN 1022-6680
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42. Chee Keong Tan and David Mba, Limitation of Acoustic Emission for identifying seeded defects in gearboxes. **Journal of Nondestructive Evaluation**, Vol. 24, No. 1, March 2005, p 11 - 28. ISSN: 0195-9298
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69. A. Addali, S. Al-Lababidi, D. Mba, H Yeung, **Observations of Acoustic Emission in two-phase flow**, 22nd International Congress and Exhibition on Condition Monitoring and Diagnostic Engineering Management (COMADEM 2008), Prague, Czech Republic, 11th – 13th June 2008. ISBN 978-80-254-2276-2, 3-10.
70. Elforjani, M, and Mba, D., **Acoustic Emission and natural degradation of a slow speed bearing**, 22nd International Congress and Exhibition on Condition Monitoring and Diagnostic Engineering Management (COMADEM 2008), Prague, Czech Republic, 11th – 13th June 2008. ISBN 978-80-254-2276-2, 187-196.
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 88. M. Al Shaikh Mubarak, M. Leahy, D. Mba, **A fundamental study on the source location capabilities of Acoustic Emission for shaft-seal rubbing on large power generation turbines**. 18th International Congress and Exhibition on Condition Monitoring and Diagnostic Engineering Management (COMADEM 2005), Cranfield, UK, August 31st – 2nd September 2005. Edited by Mba, D and Rao, R. ISBN 1871315913
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