

# **Mechanical Engineering**

**Year 2011**

## ***Conference Papers***

1. **Saud A. Khashan** and Yousef Haik , Numerical Simulation of Biomagnetic Fluid Separation In a 2D Planner Channel , Proceedings of the 11th International Conference on Fluid Control, Measurements and Visualization FLUCOME 2011, Keelung, Taiwan, December 5-9, 2011.
2. **Saud A. Khashan** and Edward Furlani, CFD-Based, Lagrangian-Eulerian coupling approach for Magnetophoretic Particle Capture, P-42, Proceedings of the 3rd Micro and Nano Flows Conference Thessaloniki, Greece, 22-24 August 2011.
3. **Saud A. Khashan** and Edward Furlani, Discrete Particle Modeling for Magnetophoretic Particle Capture, 3<sup>rd</sup> International conference of Nanotechnology, UAE-AI-Ain, 27-30 November, 2011.
4. Emad Elnajjar, Yousef Haik, Mohammed Hamdan and **Saud A. Khashan**, Experimental Study of Convective Heat Transfer of MWCNT in Aqueous Fluid Flow inside Micro-circular Tube, 3<sup>rd</sup> International conference of Nanotechnology, ICN2011, UAE-AI-Ain, 27-30 November, 2011.
5. Elnajjar E., Haik Y., Hamdan M. O., Khashan S. A., Experimental Study of Convective Heat Transfer of MWCNT in Aqueous Fluid Flow inside Micro-circular Tube, 3rd International conference of Nanotechnology, UAE-AI-Ain, 27-30 November, 2011.
6. Alsayyed, B., Hamdan, M. O., Elnajjar, E., "Optimal Parametric Model for Vortex Using DOE", accepted for The annual ASME International Mechanical Engineering Congress and Exposition, IMECE2011, Denver, Colorado, 11-17 November 2011.
7. Elnajjar, E., Selim, M., Hamdan, M. O., "Effect of Variable LPG Composition Fuel on Dual Fuel Engine Performance", 11th Conference on Energy for a Clean Environment, Lisbon, Portugal, 5-8 July 2011.
8. Saraiji, R., Harb, A., Hamdan, M. O., "Performance of LED Street Light in Hot Environment", Proceedings of Light 2011, Poznan, Poland, 17-19 May 2011.
9. Hamdan, M. O., Alawar A., Elnajjar E., Siddique W., "Feasibility of Vortex Tube Air-Conditioning System", Proceeding of to the 8th ASME/JSME Thermal Engineering Joint Conference, Honolulu, Hawaii, AJTEC 13-17 March 2011.
10. Hamdan, M. O., Altaher A. A., "Engineer's View of Lectures: PowerPoint versus Chalk and Talk", Proceeding of IAT Technological Education Conference (IAT TEC 2011), Abu Dhabi, UAE, 30-31 March 2011.
11. Basem F. Yousef, Abdel-Hamid I. Mourad, Ali Hilal-Alnaqbi: 2011. Prediction of the Mechanical Properties of PE/PP Blends Using Artificial Neural Networks. ICM11. Procedia Engineering Elsevier. Vol. 10. Pages: 2713-2718
12. Amin Daneshmand Malayeri, Ali Hilal-Alnaqbi, Nikos E. Mastorakis. Mathematical Methods Assessment for New Innovation Performance. 8th International WSEAS conference on Engineering Education. Greece July 2011
13. Shapoor Zarei, Ali Hilal Alnaqbi , Nikos E. Mastorakis and Amin Daneshmand Malayeri. 2011. The International conferences in Florence, Italy, in August.

14. M.A. Etman, A. M. Kandeel, A-H. I. Mourad “Impact of CNTs on magnesia cement past characteristics, 3<sup>rd</sup> international conference on nanotechnology, November 28-30, 2011, United Arab Emirates University, Al-Ain, United Arab Emirates.
15. M.A. Etman, A. M. Kandeel, A-H. I. Mourad “Tensile and flexure behavior of CNTs/Epoxy Nonocomposites, 3<sup>rd</sup> international conference on nanotechnology, November 28-30, 2011, United Arab Emirates University, Al-Ain, United Arab Emirates.
16. Abdel-Hamid I. Mourad, Aly El-Domiati, Notch Radius and Specimen Size Effects on Fracture Toughness of Low Alloy Steel, proceeding of the 11<sup>th</sup> International Conference on Mechanical Behaviour of Materials, ICM11, COMO, Italy, July 5-9, 2011
17. Abdelkader Dehbi, Abdel-Hamid I. Mourad and Amar Bouaza, Ageing Effect on the Properties of Tri-Layer Polyethylene Film Used as Greenhouse Roof, 11th International Conference on the Mechanical Behavior of Materials (ICM11), COMO, Italy, July 5-9, 2011.
18. Abdel-Hamid I. Mourad, and Yaser E. Greish, Development of Novel Hydroxyapatite-polymer Composites as Hard Tissue Replacements, proceeding of the 11<sup>th</sup> International Conference on Mechanical Behaviour of Materials ICM11, COMO, Italy, July 5-9, 2011.
19. Yaser E. Greish1 and Abdel-Hamid I. Mourad, Fiber-reinforced Polymer Composites with Enhanced Bioactivity, proceeding of the 11<sup>th</sup> International Conference on Mechanical Behaviour of Materials ICM11, COMO, Italy, July 5-9, 2011.
20. Basem F. Yousef, Abdel-Hamid I. Mourad, Ali Hilal-Alnaqbi, Prediction of the Mechanical Properties of PE/PP Blends Using Artificial Neural Networks, Proceeding of the 11<sup>th</sup> International Conference on Mechanical Behaviour of Materials ICM11, COMO, Italy, July 5-9, 2011
21. M.ohamed Y. E. Selim, M. Maraqa, Y. Hawas and A.M.O. Mohamed, Assessment of Vehicle Inspection and Emission Standards in the United Arab Emirates, Proceedings of The 2011 International Conference of Mechanical Engineering London, U.K., 6-8 July, 2011.
22. **Al Omari S. B.**, Spray Combustion and Emissions from Bended Ducts (Submitted to the “11<sup>th</sup> international Conference on ENERGY FOR A CLEAN ENVIRONMENT; Portugal, 2011.
23. Mohamed Y. E. Selim, Y. Haik, S. A.-B. Al-Omari, and H. Abdulrahman, Combustion of Biodiesel Oil Derived From Jojoba Solid Waste, Proceedings of The 2011 International Conference of Mechanical Engineering London, U.K., 6-8 July, 2011.
24. **Samir A. Emam**, Stability and Response of Beams in Postbuckling, Proceedings of the 8th International Conference on Structural Dynamics, EURO DYN 2011, July 4-7, 2011, Leuven, Belgium.
25. A.M. Gaouda , A.M. Abdrabou, O.A .Abuzeidand, **Farag K. Omar** , “Integrating EIS and Wavelet Multi-resolution Analysis; Part 1: Enhancing Monitoring of Nonconductive Coatings”, The 2011 2nd International Conference on Mechanical, Industrial, and Manufacturing Technologies (MIMT 2011), Singapore, 26 to 28 February, 2011.
26. Moustafa, K.A , and Haik, “On Identification of Leaky Pipeline Parameters Via Monte Carlo Simulation,” 2011 ASME Pressure Vessels and Piping Conference (PVP 2011), Baltimore, Maryland, July 17 – 21, 2011.

#### **Books**

1. Alsayyed, B., and Harib, K., A New FlexDie Implementation for Sheet Metal Manufacturing, In: Advances in Sustainable Manufacturing, Seliger, G., Khraisheh, M. and Jawahir, I.S. (Eds.), Springer-Verlag, 2010.

***Edited Books***

***Book Chapters***

***Patents***