

AHMAD AL-MAGABLEH
The Hashemite University
Zarqa-Jordan

Birth: Ramtha Oct-20-1978
Phone: +962778320992
Email: amalmag1@gmail.com

EDUCATION: **PhD Mechanical Engineering-Applied Mechanics of Nano-composites**, The University of Mississippi-USA, G.P.A. 3.7, Graduation Date Jan/2011.

M.S. Mechanical Engineering, Jordan University of Science and Technology, (JUST), Jordan, G.P.A. 82 %, Graduation Date 01/05.

B.S. Mechanical Engineering, Jordan University of Science and Technology, Jordan
Major: Thermal Power. G.P.A. Good, Graduation Date 06/2001

HONORS/AWARDS:

PhD Dissertation Fellowship, Graduate School, **University of Mississippi**, Aug 2010

Academic Experience: (7years)

- 17/04/2019- present, Associate professor , Mechanical Engineering, **The Hashemite University-Jordan**
- Feb/ 2013- April/2019, **Assistant Professor**, Mechanical Engineering, **The Hashemite University-Jordan**
- May/2015-Sept/2016, **Department chair**, Mechanical Engineering, **The Hashemite University-Jordan**
- 2012-2013, **Assistant Professor**, Mechanical Engineering, **Al-Balqa Applied University-Jordan:**
- 2007-2010, **Research Assistant**, Nano-research Group, University of Mississippi-USA:

-Experimental Characterization of dynamic properties (storage modulus, damping and creep/stress relaxations) using the Dynamic Mechanical Analyzer, and investigating morphology of micro-structure and failure surface area analysis for vinyl ester reinforced nano-composites using Keyence Digital Microscope VHX-600E.

PUBLICATIONS:

- 1- Bourhan Tashtoush and **A. Almagableh**, “**Magnetic Field Effect on Heat Transfer and Fluid Flow Characteristics of Blood Flow in Multi-Stenosis Arteries**” *Journal of Heat and Mass Transfer*, Vol. 44, No. 3, pp 297-304, 2008.
- 2- **A. Almagableh**, Mantena P. R, and Alostaz A, “**Creep and Stress Relaxation Modeling of Nanoclay and Graphite Platelet Reinforced Vinyl ester Nanocomposites,**” *Journal of Applied Polymer Science*, Vol. 115, pp 1635-1642, 2009.

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- 3- **A. Almagableh, P. R. Mantena, A. Alosatz, W. Liu , and L. Drzal “Effects of Bromination on the Viscoelastic Response of Vinyl ester Nanocomposites ”** *Journal of eXPRESS Polymer Letters, Vol. 3, No.11, pp 724-732, 2009.*
 - 4- **A. Almagableh, P. R. Mantena, “Experimental and finite Element Modeling of vinyl ester Nanocomposites under Blast and Quasi-static Flexural Loading”** *J Applied Polymer Science, Vol.126 (6), pp.1895-1905, 2012.*
 - 5- **A. Almagableh, P. R. Mantena, A. Awwad and M. Rababah, “ Modeling of creep behavior for graphene filled vinyl ester nanocomposites”** *Jordan Journal of Mechanical and Industrial Engineering, Vol.8 (6), pp. 343-350, 2014.*
 - 6- **A. Almagableh, P. R. Mantena, “Modeling the elastic modulus of exfoliated graphite platelets filled vinyl ester: Analytical Predictions with consideration of filler percolation”** *J of Composite Materials, Vol.49 (11), pp.1285-1290, 2015.*
 - 7- **A. Almagableh, P. R. Mantena, A. Alosatz, and A. Awwad “ Analytical prediction of creep behavior in polymeric-based nanocomposites”** *J of reinforced plastics and composites, Vol.34 (9), pp. 687-695, 2015.*
 - 8- **M. Aljarrah, S. Obeidat, R.H. Fouad, M. Rababah, A. Almagableh, A. Itradat, “Thermodynamic calculations of the Mn–Sn, Mn–Sr and Mg–Mn–{Sn, Sr} systems”**, *IET Science, Measurement & Technology, Vol. 9(6), 681 – 692, 2015.*
 - 9- **M. Rababah, A. Almagableh, M. Aljarrah, “Five-axis rake face grinding of end-mills with circular-arc generators”**, *International Journal on Interactive Design and Manufacturing (IJIDeM) , Vol.11 (1), 2017.*
 - 10- **A. Almagableh, F. Al-Oqla and M. Omari, “Predicting the Effect of Nano Structural Parameters on the Elastic Properties of Carbon Nanotube-polymeric based Composites”**, *International Journal of performability Engineering, Vol. 13(1), 73-86, 2017.*
 - 11- **A. Almagableh, M. Omari, and Igor Sevostianov, “Modeling of anisotropic elastic properties of multi-walled zigzag carbon nanotubes”**, *International Journal of Engineering Science, Vol. 144(1), 2019.*

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TEACHING INTERESTS:

1. DYNAMIC OF MACHINES
2. MECHANICAL VIBRATIONS
3. MECHANICS OF COMPOSITE MATERIALS
4. CONTINUUM MECHANICS FOR ENGINEER
5. CONSTITUTIVE MODELING
6. FINITE ELEMNT MODELING
7. EXPERIMENTAL STRESS ANALYSIS

COMPUTER SKILLS PROFICIENCY:

1. Digimat FEA, ANSYS v11, ANSYS LS DYNA
2. 3D CAD: Mechanical Desktop
3. 2D CAD: AutoCAD.
4. Programming: Mat-lab.

REFERENCE

- Dr. Ahmed Alostaz, (University of Mississippi), alostaz@olemiss.edu
- Professor T McCarty (University of Mississippi), mccarty@olemiss.edu
- Professor A.M Rajendran (University of Mississippi), raj@olemiss.edu.
- Professor P. Raju Mantena (University of Mississippi), meprm@olemiss.edu