

DR. KHALED A. ALNEFAIE

Professor, Mechanical Engineering Department, King Abdulaziz University

Education

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
PhD	Mechanical Engineering	University of Central Florida, USA	2000
BS	Mechanical Engineering	King Abdulaziz University	1991

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title(Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
1995	1996	King Abdulaziz University	Teach. Assist.		Full Time
1996	2000	University of Central Florida	Grad. Assist.		Full Time
2000	2009	King Abdulaziz University	Assist. Prof.		Full Time
2009	2015	King Abdulaziz University	Assoc. Prof.		Full Time
2015	present	King Abdulaziz University	Professor		Full Time

Non-Academic Industrial Experience

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position (Brief)</i>	<i>Description</i>	<i>Full or Part Time</i>
1991	1995	Saudi Technological Company, Saudi Arabia	Systems Design Engineer	R&D of Systems	Military	Full Time

Funded Research Projects and Patents from the Past Five Years

1. HiCi Research Initiative Funded Project-(3-4-1432/HiCi), King Abdulaziz University, *Gradient Material Mechanics (GMM) Across Scales: New Directions and Areas of Interdisciplinary Research Activity with Applications to Advanced Technologies*, 2012, Running
2. Vibration Control of a Flexible Robotic Arm by Smart Material Co-Investigator, Sponsored by *The Deanship of Scientific Research*, King Abdulaziz University, Grant No. 110/427, February 2007

Current Membership in Professional Societies and Organizations

<i>Society/organization</i>	<i>Rank</i>	<i>Member Since</i>
1. American Society of Testing Material, ASTM	Member	2000
2. American Society of Mechanical Engineers, ASME	Member	1995
3. Society for Experimental Mechanics, SEM	Member	1998
4. Saudi Council of Engineers, SCE	Member	2005

Honours and Awards

1. Graduate Academic Scholarship from King Abdulaziz University-1996.

Institutional and Professional Services (*administration, committees, units, etc.*)

1. Academic advisor, Mechanical Eng. Dept., KAU, 2000-present.
2. Coordinator of several Faculty of Engineering Committees (Curriculum, Postgraduate, and Strategic Planning), KAU.
3. Chairman of the Mechanical Engineering Department, College of Engineering, KAU
4. Committee chair to prepare the PhD program in the Mechanical Engineering Department, KAU

Principal Publications/Presentations from the Past Five Years

1. A.M. Zenkour, A.E. Abouelregal, **K.A. Alnefaie**, N.H. Abu-Hamdeh, "Seebeck Effect on a Magneto-Thermoelastic Long Solid Cylinder with Temperature-Dependent Thermal Conductivity" *European Journal of Pure and Applied Mathematics*, Vol. 4, pp.786–808, **2017**.
2. H. Chouiyakh, L. Azrar, **K. Alnefaie**, O. Akourri, "Vibration and multi-crack identification of Timoshenko beams under moving mass using the differential quadrature method" *International Journal of Mechanical Sciences*, Vol. 120, pp.1–11, **2017**.
3. A.M. Zenkour, A.E. Abouelregal, **K.A. Alnefaie**, N.H. Abu-Hamdeh, A.A. Aljinaidi, **E.C. Aifantis**, "Two-temperature dual-phase-lags theory in a thermoelastic solid half-space due to an inclined load" *Mechanical Sciences*, Vol. 7, pp.179–187, **2016**.
4. Hajar Chouiyakh, Lahcen Azrar, **Khaled Alnefaie**, Omar Akourri, "Multicracks identification in beams based on moving harmonic excitation" *Structural Engineering and Mechanics*, Vol. 58, pp.1087–1107, **2016**.
5. K.M. Kateb, K.H. Almitani, **K.A. Alnefaie**, N.H. Abu-Hamdeh, P. Papadopoulos, H. Askes, **E.C. Aifantis**, "Application of gradient elasticity to benchmark problems of beam vibrations" *Journal of Mech Behav Mater*, Vol. 25, pp.33–51, **2016**.
6. A.M. Zenkour, A.E. Abouelregal, **K.A. Alnefaie**, X. Zhang, **E.C. Aifantis**, "Nonlocal Thermoelasticity Theory for Thermal-Shock Nanobeams with Temperature-Dependent Thermal Conductivity" *Journal of Thermal Stresses*, Vol. 38, pp.1049–1067, **2015**.
7. A.M. Zenkour, A.E. Abouelregal, **K.A. Alnefaie**, N.H. Abu-Hamdeh, A.A. Aljinaidi, **E.C. Aifantis**, "State space approach for the vibration of nanobeams based on the nonlocal thermoelasticity theory without energy dissipation" *Journal of Mechanical Science and Technology*, Vol. 29, pp.2921–2931, **2015**.
8. N.H. Abu-Hamdeh, **K.A. Alnefaie**, "A Comparative Study of Almond Biodiesel-Diesel Blends for Diesel Engine in Terms of Performance and Emissions" *BioMed Research International Journal*, pp.1–8, **2015**.
9. N.H. Abu-Hamdeh, **K.A. Alnefaie**, "A comparative study of almond and palm oils as two bio-diesel fuels for diesel engine in terms of emissions and performance" *Fuel Journal*, Vol. 150, pp.318–324, **2015**.