

DR. ABDULMALIK ALI ALJINAIDI ALGHAMDI

Professor, Department of Mechanical Engineering, King Abdulaziz University

Education

<i>Degree</i>	<i>Field of Study</i>	<i>Institution</i>	<i>Year</i>
PhD	Mechanical Engineering	University of Maryland at College Park, USA	1995
MS	Mechanical Engineering	University of Maryland at College Park, USA	1994
	Mechanical Engineering	King Abdulaziz University	1991
BS	Mechanical Engineering	King Abdulaziz University	1988

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Full or Coordinator, etc.)</i>	<i>Part Time</i>
1988	1995	King Abdulaziz University	TA		Full
1995	2001	King Abdulaziz University	Assist. Prof.		Full
2001	2005	King Abdulaziz University	Assoc. Prof.		Full
2005	present	King Abdulaziz University	Professor		Full

Non Academic Industrial Experience (including Consultations)

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position Description (Brief)</i>	<i>Full or Part Time</i>
Summer	1997	Catholic University of America, Washington DC, USA	Visiting Researcher		Part
Summer	2000	University of Maryland, College Park, USA	Visiting Assistant Professor		Part
2/2002	9/2002	Saudi Aramco, Dhahran, KSA	Consultant		Full

Honors and Awards

1. **King Abdulaziz Medal of First Grade, (2004)**

Institutional and Professional Services

1. Vice Dean of Jeddah Community College, King Abdulaziz University, Jeddah, Saudi Arabia
2. Dean of Jeddah Community College, King Abdulaziz University, Jeddah, Saudi Arabia
3. Dean of Research and Consultation Institute, King Abdulaziz University, Jeddah, Saudi Arabia
4. Dean of Faculty of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia

Scientific & Professional Societies of which a Member

American Society of Mechanical Engineers (ASME),	Since 1/1994
American Society for Engineering Education (ASEE),	Since 1/1996
Saudi Society of Mechanical Engineers (SSME),	Since 6/2001

Principal Publications/Presentations from the Past Five Years

1. **A. A. A. Alghamdi**, “Adaptive Imperfect Column with Piezoelectric Actuators,” *Journal of Intelligent Material Systems and Structures*, 12 (3), pp. 183-189, 2001.
2. **A. A. A. Alghamdi and A. Dasgupta**, “Eigenstrain Techniques for Modeling Adaptive Structures: II) Active Stiffness Tailoring,” *Journal of Intelligent Material Systems and Structures*, 12 (1), pp. 31-40, 2002.
3. **A. A. A. Alghamdi**, “Folding-Crumpling of thin-Walled Aluminum Frusta,” *International Journal of Crashworthiness*, Vol. 7, No. 1, pp. 67-78, 2002.
4. **M. Akyurt, H. A. Bogis, A. A. N. Aljawi, A. A. A. Alghamdi and F. A. Dehlawi**, “A Force-Intensifying Gripper For Concentric Gripping,” *European Journal of Mechanical and Environmental Engineering*, Vol. 47, No. 1, pp. 23-29, 2002.
5. **A. A. A. Alghamdi, A. A. N. Aljawi and T. M.-N. Abu-Mansour**, “Modes of Axial Collapse of Unconstrained Capped Frusta,” *International Journal of Mechanical Engineering*, Vol. 44, pp. 1145-1161, 2002.
6. **A. A. A. Alghamdi**, “Three Dimensional Tubular Impact Energy Absorber”, *European Journal of Mechanical and Environmental Engineering*, Vol. 47, No. 3, pp. 159-166, 2002.
7. **A. A. A. Alghamdi**, “Reinversion of Aluminum Frusta,” *Thin-Walled Structures*, Vol. 40, pp. 1037-1049, 2002.
8. **M. Akyurt, A. A. Aljawi, H. A. Bogis, A. A. Aljainaidi and F. M. Dehlawi**, “A Six-Link Gripper for An Industrial Robot,” *Abhath Al-Yarmouk, Basic Science and Engineering*, Vol. 11, No. 2, pp. 503-515, 2002.
9. **H. Diken and A. A. A. Alghamdi**, “Residual Vibration Response Spectra for a Servomotor-Driven Flexible Beam,” *Journal of Mechanical Engineering Science*, Vol. 217, pp. 577-583, 2003.
10. **B. A. Alzahrani and A. A. A. Alghamdi**, “Review of Mechanics of Materials models for One-Dimensional Surface-Bonded Piezoelectric Actuators,” *Journal of Smart Structures and Materials*, Vol. 12, N1-N4, 2003.
11. **M. Zaki, A. A. Aljainaidi and M. Hamed**, “Tribological Behavior of Artificial Hip Joint Under the Effects of Magnetic Field in Dry and Lubricated Sliding,” *International Journal of Bio-Medical Materials and Engineering*, Vol. 13, No. 3, pp. 205-221, 2003.
12. **A. A. A. Alghamdi and M. S. Al-Sanaa**, “Two Dimensional Finite Element Analysis for Large Diameter Steel Flanges,” *Journal of Pressure Vessel Technology*, Vol.126, pp. 399-403, 2004.
13. **A. A. N. Aljawi, A. A. A. Alghamdi T. M.-N. Abu-Mansour, and M. Akyurt**, “Inward Inversion of Capped End Frusta as Impact Energy Absorbers,” *Thin-Walled Structures*, Vol. 43, No. 4, pp 647-664, 2005.
14. **A. A. A. Alghamdi and N. S. Kahtani**, “Sand Control Measures and General Guidelines for Design of Sand Drift Fences,” *Journal of Performance of Constructed Facilities, Transaction of ASCE*, pp. 295-299, November 2005.
15. **T. H. Alghamdi , A. A. N. Aljawi, A. A. A. Alghamdi, and M. Akyurt**, “Investigation of Simple Cubical Space Trusses as Impact Energy Absorbers,” *Journal of The Institution of Engineers, Malaysia*, Vol. 68. No. 2, pp. 15-20, June 2007.