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h-index (Scopus):
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Supervised MSc Theses

#	Thesis title	By	Date
1	An experimental and numerical investigation on the influence of residual gas on laminar flame speed of natural gas and gas gasoline fuel mixture	Mohsen Mohsenirad & Mehdi Akhlaghi	December 2015
2	Determination of Acoustoelastic Coefficients in Welding Metal and HAZ in Austenitic Stainless Steel Welding	Iman Rahimi & Mehdi Akhlaghi	October 2015
3	Measurement of Welding Residual Stress of Austenitic Stainless Steel By Using LCR Ultrasonic Waves by Eliminating Approximation of Acoustoelastic	Shayan Nejadshamsi & Mehdi Akhlaghi	September 2015
4	Influence of effective parameters on the strength of electro-magnetically produced joints	Mohammad Zare Zardeini & Mehdi Akhlaghi	February 2015
5	Welding technology compilation for manufacturing of a cryogenic pressure vessel	Mahdi Karimimanesh & Mehdi Akhlaghi	October 2014
6	Nano- Composite Spherical Shell Layer Optimization	Parviz Samadof & Mehdi Akhlaghi	February 2014
7	evaluation of Mechanical and formability properties of st14 alloys welded by friction stir welding(FSW)	& Mehdi Akhlaghi	February 2014
8	Study of precision in Fatigue assessment of a fillet weld based on the four methods in the international institute of welding	Atabak Dindarsafa & Mehdi Akhlaghi	January 2014
9	Analysis of thick hollow FGM(functionally graded material) cylinder related to elasticity modulus in a wind turbine	Ahad Kheiri & Mehdi Akhlaghi	September 2013

10	FEM and AE fracture analysis of glass/epoxy composite laminate under bending load	& Mehdi Akhlaghi	February 2013
11	Analysis and simulation of wheel rail profile impact on GT26CW ocomotive safety and stability	& Mehdi Akhlaghi	January 2013
12	Analysis of functionally graded thin walled cone under dynamic loads	Morteza Rahmani Nooshabadi & Mehdi Akhlaghi	October 2012
13	Finite element analysis of a welded structure made up of tubular austenitic steel in order to minimize distortion	Mehdi Nouri & Mehdi Akhlaghi	October 2012
14	Theoretical and Experimental Damage Investigation of Composite Laminate under Three Point Bending using Acoustic Emission	& Mehdi Akhlaghi	October 2012
15	Fretting fatigue behavior of journal bearing in an internal combustion engine	Hossein Derakhshanfar & Mehdi Akhlaghi	February 2012
16	Study of welding distortions and residual stresses in a welded thin-wall vessel of aluminum alloy of type 5000	& Mehdi Akhlaghi	November 2011
17	Nonlinear viscoelastic and viscoplastic Analysis of composite rectangular plate	& Mehdi Akhlaghi	October 2011
18	Strength analysis of a welded gear tooth and investigation of effects of welding distortion and residual stress	& Mehdi Akhlaghi	June 2011
19	Dynamical analysis of a functionally graded thick hollow cylinder with finite length with semi-analytical method	Mohammad Kavousi Sisi & Mehdi Akhlaghi	December 2010
20	Transient thermal analysis in functionally graded thick hollow cylinder with finite length by semi analytical method	& Mehdi Akhlaghi	December 2010
21	Dynamic and wave propagation analysis of functionally graded thick hollow cylinder with finite length	& Mehdi Akhlaghi	October 2010
22	Studying leak in valves of Internal Combustion Engine Using Acoustic Emission	Sadegh Hosseini & Mehdi Akhlaghi	September 2010
23	optimization of thick hollow cylinder made of two dimensional FGM for using in interval combustion engine	Masoud Noorjani & Mehdi Akhlaghi	January 2010
24	Design and Modeling of Piezoelectric based Microactuator	Hamed Esteki & Mehdi Akhlaghi	May 2008
25	THE MICROSTRUCTURES ON THE RESIDUAL STRESS EVOLUTION IN THE STEEL STRUCTURES	Saeed Mirmoghdam Hasanabadi & Mehdi Akhlaghi	March 2008
26	THE EXPERIMENTAL VALIDATION OF MICROSTRUCTURE AND RESIDUAL STRESS MODELS AND DESIGN OPTIMIZATION OF THE WELDED STRUCTURE	Mosayeb Safian Beldaji & Mehdi Akhlaghi	December 2007
27	CONVERSION OF SPARK-IGNITION ENGINE TO DIRECT INJECTED CNG	Seyed Vahid Hoseini & Mehdi Akhlaghi	May 2007
28	Analysis of the Functionally Graded Thick Hollow Cylinders with Unlimited Length under Mechanical and Thermal Loads in	Mohamad Nabizadeh Farashah & Mehdi Akhlaghi	December 2006
29	Analysis of functionally graded thick hollow cylinders under mechanical and thermal loads in internal combustion engines	Arash Zamani & Mehdi Akhlaghi	November 2006
30	ANALYSIS OF MOLTEN METAL DURING THE SLOW SHOT OF DIE CASTING	Ali Jalili Nikroo & Mehdi Akhlaghi	October 2006

Books

#	Title	Author(s)	Publisher country	publication date	version
Portal Records					
1	Computational welding mechanics	J.A. Goldak, Mehdi Akhlaghi	Iran (Islamic Republic of)	March 2005	1
2	Gemishbildung bei ottomotoren	H.P. Lenz, Mehdi Akhlaghi	Iran (Islamic Republic of)	March 1989	1
3	Schads to ffemissionen geoamten benzin-and dieselbetriebenen strassen verkers in oesterreich	H.P. Lenz, Mehdi Akhlaghi	Iran (Islamic Republic of)	March 1988	1
4	Laufunruhe ,Abgasemissionen and verbrauch eines ottomotors bei mager beteieb	Mehdi Akhlaghi	Iran (Islamic Republic of)	March 1986	1
5	Running disturbances,exhaust gas cnission and	Mehdi Akhlaghi	Iran (Islamic Republic of)	March 1977	1
6	Machine Components Design (Mechanical Systems)	Mehdi Akhlaghi, Mohsen Khajehzadeh	Iran (Islamic Republic of)	February 2017	1
7	Schads to ffemissionen geoamten benzin-and dieselbetriebenen strassen verkers in oesterreich	H.P. Lenz, Mehdi Akhlaghi	Iran (Islamic Republic of)		1

Journal Papers

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- Mehrdad Nazmdar, Mehdi Ahmadi Najafabadi, Mehdi Akhlaghi, "On the improvement of analytical delamination model for drilling of laminated composites using Galerkin method", COMPOSITES PART B-ENGINEERING, April 2020 Vol. 194, Num. 0, Page 1-13, April 2020,
- Jalal Yousefi, Mehdi Ahmadi Najafabadi, Hossein Hosseini Toudeshky, Mehdi Akhlaghi, "Damage evaluation of laminated composite material using a new acoustic emission Lamb-based and finite element techniques", APPLIED COMPOSITE MATERIALS, October 2017 Vol. 0, Num. 0, Page 1-20, October 2017,
- Sadegh Hosseini, Mehdi Ahmadi Najafabadi, Mehdi Akhlaghi, "Using acoustic emission method for lubrication monitoring in a journal bearing in the time- frequency domain", , August 2016 Vol. 16, Num. 6, Page 171-180, August 2016,
- Sadegh Hosseini, Mehdi Ahmadi Najafabadi, Mehdi Akhlaghi, "Classification of acoustic emission signals generated from journal bearing at different lubrication conditions based on wavelet analysis in combination with artificial neural network and genetic algorithm", TRIBOLOGY INTERNATIONAL, December 2015 Vol. 95, Num. 0, Page 426-434, December 2015,
- Mahdi Baloo, Bijan Mollaei Dariani, Mehdi Akhlaghi, S.Mostafa Agha Mirsalim, "Effects of pressure and temperature on laminar burning velocity and flame instability of iso-octane/methane fuel blend", FUEL, December 2015 Vol. 170, Num. 0, Page 235-244, December 2015,
- M. Mohsenirad, Bijan Mollaei Dariani, Mehdi Akhlaghi, M. Baloo, "An experimental investigation of the influence of diluent gas on laminar flame speed of natural gas and gasoline fuel mixture", , September 2015 Vol. 40, Num. 0, Page 47-57, September 2015,

- 7 Abbas Bahri, Mehdi Akhlaghi, Manouchehr Salehi, "An exact solution for improved metal-composite joints reinforced by FG inter-layers", *SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS*, August 2015 Vol. 0, Num. 0, Page 1-15, August 2015,
- 8 Kamran Asemi Ahangar, Manouchehr Salehi, Mehdi Akhlaghi, "Three dimensional graded finite element elasticity shear buckling analysis of FGM annular sector plates", *AEROSPACE SCIENCE AND TECHNOLOGY*, March 2015 Vol. 43, Num. 0, Page 1-13, March 2015,
- 9 Abbas Assadi, Manouchehr Salehi, Mehdi Akhlaghi, "Orientation dependent size effects in single crystalline anisotropic nanoplates with regard to surface energy", *PHYSICS LETTERS A*, March 2015 Vol. 379, Num. 22, Page 1437-1444, March 2015,
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- 11 Kamran Asemi Ahangar, Mohammad Abedi, Mehdi Akhlaghi, Manouchehr Salehi, "Natural frequency analysis of two dimensional functionally graded thick truncated cone", *Caspian Journal of Applied Sciences research*, February 2015 Vol. 3, Num. 4, Page 30-43, February 2015,
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- 14 Mohsen Khajehzadeh, Mohammad Reza Razfar, Mehdi Akhlaghi, "Experimental Investigation of Tool Temperature During Ultrasonically Assisted Turning of Aerospace Aluminum", *MATERIALS AND MANUFACTURING PROCESSES*, October 2014 Vol. 29, Num. 0, Page 1453-1460, October 2014,
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- 20 Kamran Asemi Ahangar, Manouchehr Salehi, Mehdi Akhlaghi, "Transient thermal stresses in functionally graded thick truncated cones by graded finite element method", *INTERNATIONAL JOURNAL OF PRESSURE VESSELS AND PIPING*, May 2014 Vol. 119, Num. 1, Page 52-61, May 2014,
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- 22 Yashar Javadi, Mehdi Akhlaghi, Mehdi Ahmadi Najafabadi, "Nondestructive Evaluation of Welding Residual Stresses in Austenitic Stainless Steel Plates", *RESEARCH IN NONDESTRUCTIVE EVALUATION*, March 2014 Vol. 0, Num. 25, Page 30-43, March 2014,
- 23 Mehdi Akhlaghi, Manouchehr Salehi, "Multi-scale analysis of viscoelastic-viscoplastic laminated composite plates using generalized differential quadrature method", *PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE*, July 2013 Vol. 227, Num. 7, Page 1406-1416, July 2013,

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- 27 Yashar Javadi, Mehdi Akhlaghi, Mehdi Ahmadi Najafabadi, "Using Finite Element and Ultrasonic Method to Evaluate Welding Longitudinal Residual Stress through the Thickness in Austenitic Stainless Steel Plates", MATERIALS & DESIGN, January 2013 Vol. 45, Num. 0, Page 628-642, January 2013,
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- 38 Masoud Asgari, Mehdi Akhlaghi, Seyed Mahmoud Hosseini, "Dynamic Analysis of Two-Dimensional Functionally Graded Thick Hollow Cylinder With Finite Length Under Impact Loading", , December 2009 Vol. , Num. 208, Page 0-0, December 2009,
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Conference Papers

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- 1 Mahdi Baloo, Bijan Mollaei Dariani, Mehdi Akhlaghi, S.Mostafa Agha Mirsalim, "Laminar flame speed correlation for methane-isooctane fuel blend ", 8th international conference on Internal combustion engines and Oil, February 2016
- 2 Mohsen Mohsenirad, Bijan Mollaei Dariani, Mehdi Akhlaghi, Mahdi Baloo, "An experimental investigation of the influence of diluent gas on laminar flame speed of natural gas and gasoline fuel mixture ", 9th international conference on internal combustion engines & oil, February 2016
- 3 Parviz Samadof, Hadi Samareh Salavati Pour, Younes Alizadeh Vaghasloo, Mehdi Akhlaghi, "Optimization of composite spherical sector by Colonial competition and genetic algorithm ", 22nd Annual International Conference on Mechanical Engineering., April 2014
- 4 Mahdi Baloo, Bijan Mollaei Dariani, Mehdi Akhlaghi, Iman Chitsaz, "Laminar flame speed measurement of natural gas and gasoline blended fuel ", 8th international conference on Internal combustion engines and Oil, February 2014
- 5 Kamran Asemi Ahangar, Mehdi Akhlaghi, Manouchehr Salehi, "Natural frequency analysis of functionally graded thick truncated cones ", The 3rd International Conference on Composites:Characterization, Fabrication and Application, December 2012
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- 7 Morteza Rahmani Nooshabadi, Mehdi Akhlaghi, Younes Alizadeh Vaghasloo, Kamran Asemi Ahangar, "Stress Analysis of functionally graded thin walled cone under dynamic loading ", International Conference on Mechanical Engineering and advanced Technology, October 2012
- 8 Morteza Rahmani Nooshabadi, Mehdi Akhlaghi, Younes Alizadeh Vaghasloo, ,, "Analytical Solution of Non-Newtonian Fluid Flow Between Two Parallel Plates Using Differential Transformation Method ", International Conference on Mechanical Engineering and advanced Technology, October 2012
- 9 Kamran Asemi Ahangar, Manouchehr Salehi, Mehdi Akhlaghi, "Free vibration analysis of two dimensional functionally graded plates based on three dimensional theory of elasticity and graded finite element method ", The Twentieth Annual International Conference on Composites/Nano Engineering, ICCE-20 Beijing, China, July 2012, July 2012
- 10 , Iraj Sattari Far, Mehdi Akhlaghi, Mohammad Reza Ranjbaraki, "Study the effect of local chilling on decreasing welding distortions in a high-strength alluminium pressure vessel ", 3rd International and 12th National Conference on Manufacturing Engineering (ICME 2011), December 2011
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