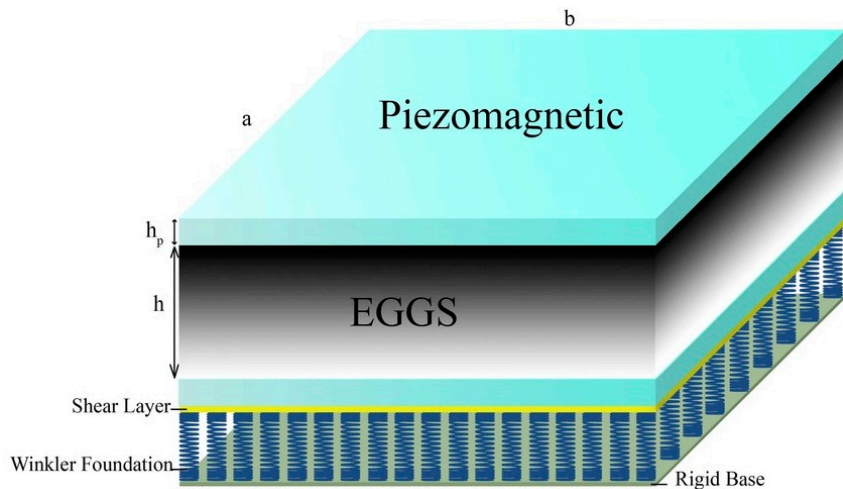




Professor Mohammad Arefi



From: Arefi, M., Zamani, M.H. and Kiani, M. (2017), "Size-dependent free vibration analysis of three-layered exponentially graded nanoplate with piezomagnetic face-sheets resting on Pasternak's foundation", *J. Intel. Mater. Syst. Struct.*, 29(5), 774-786

See:

https://scholar.google.com/citations?user=OOG_6ooAAAAJ&hl=en

https://www.researchgate.net/profile/Mohammad_Arefi4

Department of Solid Mechanics
University of Kashan, Kashan, Iran

Biography:

Mohammad Arefi is currently Assistant Professor of Mechanical Engineering at University of Kashan. He graduated from University of Kashan in 2006. He was awarded MSc and PhD degrees from Tarbiat Modares University in 2008 and 2012, respectively. He worked on piezoelectric and functionally graded materials in MSc and PhD thesis. He is currently working on nanostructures and microstructures in cooperation with MSc and PhD students. More than 65 scientific papers have been created by Mohammad Arefi. He reached to 350 citations and an H-Index=13 based on Scopus website.

Selected Publications:

- Khoshgoftar M.J., Ghorbanpour Arani A., Arefi M., 2009, Thermoelastic analysis of a thick walled cylinder made of functionally graded piezoelectric material, *Smart Material Structures* 18: 115007-115015.
- Arefi, M. and Rahimi, G.H. (2010), "Thermo elastic analysis of a functionally graded cylinder under internal pressure using first order shear deformation theory", *Sci. Res. Essays*, 5(12), 1442-1454.
- Arefi, M. and Rahimi, G.H. (2011), "Non linear analysis of a functionally graded square plate with two smart layers as sensor and actuator under normal pressure", *Smart. Struct. Syst., Int. J.*, 8(5), 433-447.
- Rahimi G.H., Arefi M., Khoshgoftar M.J.: Application and analysis of functionally graded piezoelectrical rotating cylinder as mechanical sensor subjected to pressure and thermal loads. *Appl. Math. Mech. (Engl. Ed.)* 32(8), 997-1008 (2011)
- Arefi, M., Rahimi, G.H. and Khoshgoftar, M.J. (2011), "Optimized design of a cylinder under mechanical, magnetic and thermal loads as a sensor or actuator using a functionally graded piezomagnetic material", *Int. J. Phys. Sci.*, 6(27), 6315-6322.

Arefi, M. and Rahimi, G.H. (2012a), "Comprehensive thermoelastic analysis of a functionally graded cylinder with different boundary conditions under internal pressure using first order shear deformation theory", *Mechanika*, 18(1), 5-13.

Arefi, M. and Rahimi, G.H. (2012b), "The effect of nonhomogeneity and end supports on the thermo elastic behavior of a clamped-clamped FG cylinder under mechanical and thermal loads", *Int. J. Pres. Ves. Pip.*, 96, 30-37.

Arefi, M. and Rahimi, G.H. (2012c) "Studying the nonlinear behavior of the functionally graded annular plates with piezoelectric layers as a sensor and actuator under normal pressure", *Smart. Struct. Syst., Int. J.*, 9(2), 127-143.

Mohammad Arefi and G. H. Rahimi, "Three-dimensional multi-field equations of a functionally graded piezoelectric thick shell with variable thickness, curvature and arbitrary nonhomogeneity", *Acta Mechanica*, Vol. 223, No. 1, pp 63-79, January 2012

Arefi, M., Rahimi, G.H., Khoshgoftar, M.J.: Exact solution of a thick walled functionally graded piezoelectric cylinder under mechanical, thermal and electrical loads in the magnetic field. *Smart Struct. Syst.* 9, 427–439 (2012)

Arefi, M.: Nonlinear thermoelastic analysis of thick-walled functionally graded piezoelectric cylinder. *Acta Mech.* 224, 2771–2783 (2013)

Arefi, M. and Rahimi, G.H. (2014a), "Application of shear deformation theory for two dimensional electro-elastic analysis of a FGP cylinder", *Smart. Struct. Syst., Int. J.*, 13(1), 1-24

Arefi, M. and Rahimi, G.H. (2014b), "Comprehensive piezothermo-elastic analysis of a thick hollow spherical shell", *Smart. Struct. Syst., Int. J.*, 14(2), 225-246.

Arefi, M. (2014), "Generalized shear deformation theory for thermo elastic analyses of the functionally graded cylindrical shells", *Struct. Eng. Mech., Int. J.*, 50(3), 403-417.

Arefi, M. (2014), "A complete set of equations for piezomagnetoelastic analysis of a functionally graded thick shell of revolution", *Latin. Am. J. Solids. Struct.*, 11(11), 2073-2092.

Mohammad Arefi and Iman Nahas, "Nonlinear electro thermo elastic analysis of a thick spherical functionally graded piezoelectric shell", *Composite Structures*, Vol. 118, pp 510-518, December 2014

Arefi, M. (2015), "Nonlinear electromechanical analysis of a functionally graded square plate integrated with smart layers resting on Winkler-Pasternak foundation", *Smart. Struct. Syst., Int. J.*, 16(1), 195-211.

Arefi, M. and Allam, M.N.M. (2015), "Nonlinear Responses of an Arbitrary FGP Circular Plate Resting on Foundation", *Smart. Struct. Syst., Int. J.*, 16(1), 81-100.

Arefi, M. (2015a), "Elastic solution of a curved beam made of functionally graded materials with different cross sections", *Steel Compos. Struct., Int. J.*, 18(3), 659-672.

Arefi, M. (2016a), "Analysis of wave in a functionally graded magneto-electro-elastic nano-rod using nonlocal elasticity model subjected to electric and magnetic potentials", *Acta Mech.*, 227, 2529-2542.

Arefi, M. (2016b), "Surface effect and non-local elasticity in wave propagation of functionally graded piezoelectric nano-rod excited to applied voltage", *Appl. Math. Mech.*, 37, 289-302.

Arefi, M. and Zenkour, A.M. (2016a), "A simplified shear and normal deformations nonlocal theory for bending of functionally graded piezomagnetic sandwich nanobeams in magneto-thermo-electric environment", *J. Sandw. Struct. Mater.*, 18(5), 624-651.

Arefi, M., Abbasi, A.R. and Vaziri Sereshk, M.R. (2016a), "Twodimensional thermoelastic analysis of FG cylindrical shell resting on the Pasternak foundation subjected to mechanical and thermal loads based on FSDT formulation", *J. Therm. Stress.*, 39(5), 554-570.

Arefi, M. and Zenkour, A.M. (2016b), "Employing sinusoidal shear deformation plate theory for transient analysis of three layers sandwich nanoplate integrated with piezo-magnetic facesheets", *Smart. Mater. Struct.*, 25(11), 115040.

Arefi, M., Faegh, R.K. and Loghman, A. (2016b), "The effect of axially variable thermal and mechanical loads on the 2D thermoelastic response of FG cylindrical shell", *J. Therm. Stresses*, 39(12), 1539-1559.

Arefi, M. and Zenkour, A.M. (2016c), "Free vibration, wave propagation and tension analyses of a sandwich micro/nano rod subjected to electric potential using strain gradient theory", *Mater. Res. Exp.*, 3(11), 115704.

Asadi, H., Souiri, M. and Wang, Q. (2017), "A numerical study on flow-induced instabilities of supersonic FG-CNT reinforced composite flat panels in thermal environments", *Compos. Struct.*, 171, 113-125.

Mohammad Arefi and Ashraf M. Zenkour, "Vibration and bending analysis of a sandwich microbeam with two integrated piezo-magnetic face-sheets", *Composite Structures*, Vol. 159, pp 479-490, January 2017

Arefi, M. and Zenkour, A.M. (2017a), "Transient sinusoidal shear deformation formulation of a size-dependent three-layer piezomagnetic curved nanobeam", *Acta. Mech.*, 228(10), 3657-3674.

Arefi, M. and Zenkour, A.M. (2017b), "Influence of magnetoelectric environments on size-dependent bending results of three-layer piezomagnetic curved nanobeam based on sinusoidal shear deformation theory", *J. Sandw. Struct. Mater.* DOI: doi.org/10.1177/1099636217723186

Arefi, M. and Zenkour, A.M. (2017c), "Thermal stress and deformation analysis of a size-dependent curved nanobeam based on sinusoidal shear deformation theory", *Alexandria Eng. J.* [In Press]

Arefi, M., Zenkour, A.M.: Transient sinusoidal shear deformation formulation of a size-dependent three-layer piezo-magnetic curved nanobeam. *Acta Mech.* 228, 1–18 (2017)

Arefi, M. and Zenkour, A.M. (2017d), "Electro-magneto-elastic analysis of a three-layer curved beam", *Smart. Struct. Syst., Int. J.*, 19(6) 695-703.

Arefi, M. and Zenkour, A.M. (2017e), "Influence of micro-lengthscale parameters and inhomogeneities on the bending, free vibration and wave propagation analyses of a FG Timoshenko's sandwich piezoelectric microbeam", *J. Sandw. Struct. Mater.* DOI: doi.org/10.1177/1099636217714181

Arefi, M. and Zenkour, A.M. (2017f), "Nonlocal electro-thermomechanical analysis of a sandwich nanoplate containing a Kelvin-Voigt viscoelastic nanoplate and two piezoelectric layers", *Acta. Mech.*, 228(2), 475-493.

Arefi, M. and Zenkour, A.M. (2017g), "Thermo-electromechanical bending behavior of sandwich nanoplate integrated with piezoelectric face-sheets based on trigonometric plate theory", *Compos. Struct.*, 162, 108-122.

Arefi, M. and Zenkour, A.M. (2017h), "Transient analysis of a three-layer microbeam subjected to electric potential", *Int. J. Smart Nano Mater.*, 8, 20-40.

Arefi, M. and Zenkour, A.M. (2017i), "Size-dependent vibration and bending analyses of the piezomagnetic three-layer nanobeams", *Appl. Phys. A*, 123(3), 202.

Arefi, M. and Zenkour, A.M. (2017j), "Wave propagation analysis of a functionally graded magneto-electro-elastic nanobeam rest on Visco-Pasternak foundation", *Mech. Res. Com.*, 79, 51-62.

Arefi, M. and Zenkour, A.M. (2017k), "Effect of thermo-magneto-electro-mechanical fields on the bending behaviors of a threelayered nanoplate based on sinusoidal shear-deformation plate theory", *J. Sandw. Struct. Mater.* DOI: 1099636217697497

Arefi, M. and Zenkour, A.M. (2017l), "Size-dependent free vibration and dynamic analyses of piezo-electro-magnetic sandwich nanoplates resting on viscoelastic foundation", *Phys. B: Cond. Matter.*, 521, 188-197.

Arefi, M. and Zenkour, A.M. (2017m), "Employing the coupled stress components and surface elasticity for nonlocal solution of wave propagation of a functionally graded piezoelectric Love nanorod model", *J. Intel. Mater. Syst. Struct.*, 28(17), 2403-2413.

Arefi, M., Zamani, M.H. and Kiani, M. (2017), "Size-dependent free vibration analysis of three-layered exponentially graded nanoplate with piezomagnetic face-sheets resting on Pasternak's foundation", *J. Intel. Mater. Syst. Struct.*, 29(5), 774-786

Arefi, M. and Bidgoli, E.M.R. (2017), "Elastic solution of a constrained FG short cylinder under axially variable pressure", *J. The. Ins. Eng. Ind.: Series C.*, 98(3), 267-276.

Mohammad Arefi and Ashraf M. Zenkour, "Vibration and bending analysis of a sandwich microbeam with two integrated piezo-magnetic face-sheets", *Composite Structures*, Vol. 159, pp 479-490, January 2017

M. Arefi, "Buckling analysis of the functionally graded sandwich rectangular plates integrated with piezoelectric layers under bi-axial loads", *Journal of Sandwich Structures & Materials*, Vol. 19, No. 6, pp 712-735, November 2017

M. Arefi, M. Pourjamshidian and A. Ghorbanpour Arani, "Nonlinear free and forced vibration analysis of embedded functionally graded sandwich micro beam with moving mass", *Journal of Sandwich Structures & Materials*, Vol. 20, No. 4, pp 462-492, May 2018

Mohammad Arefi and Asraf M. Zenkour, "Free vibration analysis of a three-layered microbeam based on strain gradient theory and three-unknown shear and normal deformation theory", *Steel and Composite Structures*, Vol. 26, No. 4, pp 421-437, 2018

Mohammad Arefi, "Nonlocal free vibration analysis of a doubly curved piezoelectric nano shell", *Steel and Composite Structures*, Vol. 27, No. 4, pp 479-493, 2018

Abbas Loghman, Reza K. Faegh and Mohammad Arefi, "Two dimensional time-dependent creep analysis of a thick-walled FG cylinder based on first order shear deformation theory", *Steel and Composite Structures*, Vol. 26, No. 5, pp 533-547, 2018