Professor Mohammed Hossein Naei

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Dept. of Mechanical Engineering
University of Tehran, Tehran, Iran

Education:
BSc: 1980 Iran University of Kansas, Civil Engineering
MSc: 1982 University of Kansas, Civil Engineering
PhD: 1988 University of Kansas, Mechanical Engineering

Research Interests:
Study of nonlinear plates, FGM materials, Biomechanics, Molecular dynamics

Selected Publications:
1. Mohammad Yaghmaei and M.H. Naei, "Large deflection behavior of clamped functionally graded circular plates by using element free Galerkin method", Proceedings of the 3rd IASME/WSEAS International Conference on Continuum Mechanics, Cambridge, UK, February 2008
2. Mohammad Yaghmaei and M.H. Naei, "Large deflection behavior of simply supported FGM circular plates under mechanical and thermal loads via FSDT meshless method", Proceedings of the 3rd IASME/WSEAS International Conference on Continuum Mechanics, Cambridge, UK, February 2008

3. Mohammad Yaghmaei and M.H. Naei, “Nonlinear bending of functionally graded thick circular plates by using element free Galerkin method, Proceedings of the 3rd IASME/WSEAS International Conference on Continuum Mechanics, Cambridge, UK, February 2008
4. Mohammad Yaghmaei and M.H. Naei, “Nonlinear Analysis of Clamped FGM Circular Plates Under Mechanical and Thermal Loadings by Using FSDT and Element Free Galerkin Method”, Proceedings of the 3rd IASME/WSEAS International Conference on Continuum Mechanics, Cambridge, UK, February 2008
5. M. H. Naei, A. Masoumi, A. Shamekhi, 'Buckling analysis of circular functionally graded material plate having variable thickness under uniform compression by finite-element method' Proc. IMechE, Part C: J. Mechanical Engineering Science 221 C11 (2007): 1241-1247
6. “Thermal Stability Analysis of Functionally Graded Sandwich Circular Plates of Variable Thickness”, proceedings of the Word Congress on Engineering 2010, July 2,2010, London, U.K.
7. Jalali SK, Naei MH, Poorsolhjouy A. Thermal stability analysis of circular functionally graded sandwich plates of variable thickness using pseudo-spectral method. Mater Des 2010;31(10):4755–63.
8. “Elastic Buckling of Moderately Thick Homogeneous Circular Plates of Variable Thickness” Journal of Solid Mechanics Vol.2, No.1 (2010) p.p. 19-27
9. “Solution of Torsion Problem by Boundary Integral Equation an Wavelet Analysis”, Sharif University of Technology, January 2003
10. Acoustic Scattering From Functionally Graded Cylindrical Shells”, Arch. Mech., 63, 1, p.p. 25-56, Warszawa 2011
11. Allahverdizadeh A, Naei MH, Nikkhah Bahrami M (2008). Nonlinear free and forced vibration analysis of thin circular functionally graded plates. J. Sound Vib. 310: 966-984.
12. Allahverdizadeh, A., Naei, M.H. and Bahrami, M. N., Vibration amplitude and thermal effects on the nonlinear behavior of thin circular functionally graded plates, International Journal of Mechanical Sciences, 50(3), 445-454, 2008