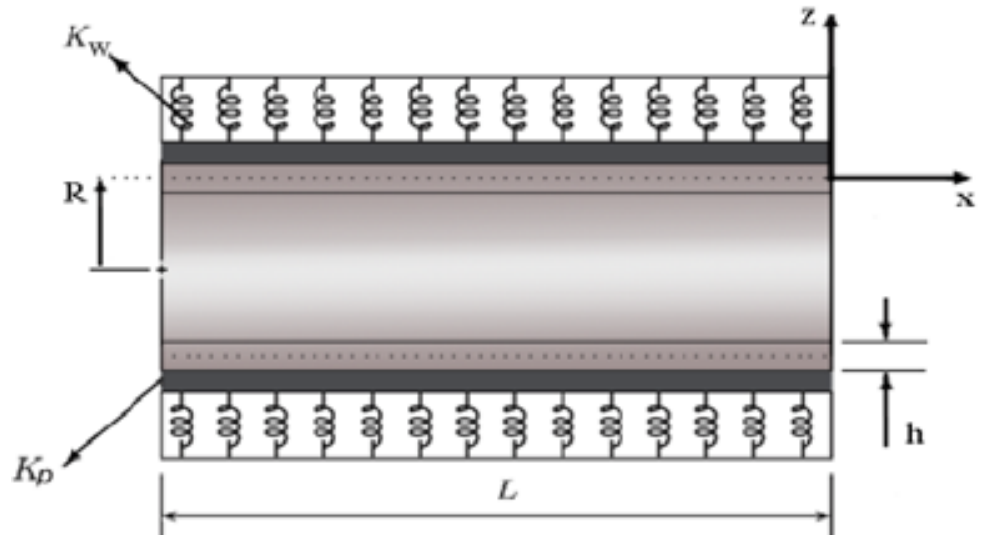




**Professor Mehdi Mohammadimehr**



From: M. Mohammadimehr, M. Moradi, A. Loghman, "Influence of the Elastic Foundation on the Free Vibration and Buckling of Thin-Walled Piezoelectric-Based FGM Cylindrical Shells Under Combined Loadings", Journal of Solid Mechanics, Vol. 6, No. 4 pp 347-365, 2014

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#### **Career:**

2007 – present University of Kashan, Mechanical Engineering  
2002 – 2006 Teaching at Shahid Bahonar University of Kerman  
2003 – 2007 Teaching at University of Shahid Dadbin  
2008 – 2011 Teaching at Islamic Azad University – Kashan Branch

#### **Education:**

2004 – 2010 Ph.D. from Shahid Bahonar University of Kerman  
Dissertation: "Buckling analysis of carbon nanotube using nonlocal elasticity theory"  
2002 – 2004 MSc from Shahid Bahonar University of Kerman  
Thesis: "Sensitivity analysis and optimization of vibration behavior of shell elements using approximation method"  
1998 – 2002 BSc from University of Kashan

#### **Selected Publications:**

1. Mohammadimehr, M. A. (2005). Optimum design of hemispherical heads under external pressure using stiffening-rings. BSc. Thesis, the University of Kashan, Iran.
2. M. Mohammadimehr, A. R. Saidi and A. Ghorbanpour Arani, Effect of small length scale on elastic buckling of DWCNT using Timoshenko beam theory, 16th Annual International Conference on Mechanical Engineering (ISME 2008), Shahid Bahonar University of Kerman, Kerman, Iran.

3. A. Ghorbanpour Arani, M. Shokravi, M. Mohammadimehr, "Buckling Analysis of a Double-Walled Carbon Nanotube Embedded in an Elastic Medium Using the Energy Method", *Archive of SID, Journal of Solid Mechanics* Vol. 1, No. 4 (2009) pp. 289-299
4. A. Ghorbanpour Arani, M. Mohammadimehr, A. Arefmanesh and A. Ghasemi, Transverse Vibration of Short Carbon Nanotube using Cylindrical Shell and Beam Models, *Proc. ImechE, Part C: J. Mech. Eng. Sci.*, 224(C3) (2010) 745–756.
5. M. Mohammadimehr, A. R. Saidi, A. Ghorbanpour Arani, A. Arefmanesh and Q. Han, "Torsional buckling of a DWCNT embedded on winkler and pasternak foundations using nonlocal theory", *Journal of Mechanical Science and Technology*, Vol. 24, No. 6, 2010, pp. 1289-1299
6. Arani A.G., Jafarzadeh Jazi A., Abdollahian M., Mozdianfard M.R., Mohammadimehr M., Amir S., Exact solution for electrothermoelastic behaviors of a radially polarized FGPM Rotating Disk, *Journal of Solid Mechanics* 3: 244-257, year?
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8. A. Ghorbanpour Arani, M. Hashermian, A. Loghman and M. Mohammadimehr, "Study of dynamic stability of the double-walled carbon nanotube under axial loading embedded in an elastic medium by the energy method", *Journal of Applied Mechanics and Technical Physics*, Vol. 52, No. 5, pp 815-824, September 2011
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10. A. Ghorbanpour Arani, M. Mohammadimehr, A.R. Saidi, S. Shogaei and A. Arefmanesh, "Thermal buckling analysis of double-walled carbon nanotubes considering the small-scale length effect", *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, January 2011, vol. 225, no. 1, pp. 248-256
11. M. Mohammadimehr, A. R. Saidi, A. Ghorbanpour Arani and Q. Han, "Postbuckling Equilibrium Path of a Long Thin-Walled Cylindrical Shell (Single-Walled Carbon Nanotube) Under Axial Compression Using Energy Method", *Archive of SID, IJE Transactions A: Basics*, Vol. 24, No. 1, January 2011, pp. 79-86
12. Ghorbanpour Arani A, Zarei MS, Mohammadimehr M, Arefmanesh A, Mozdianfard MR. The thermal effect on buckling analysis of a DWCNT embedded on the Pasternak foundation. *Physica E* 2011; 43: 1642–1648.
13. Ghorbanpour Arani A, Amir S, Shajari AR, Mozdianfard MR, Khoddami Maraghi Z, Mohammadimehr M. Electro-thermal non-local vibration analysis of embedded DWBNNTs. *Proc Inst Mech Eng Part C* 2011; 224: 745–756
14. Ghorbanpour Arani A., Bakhtiari R., Mohammadimehr M., Mozdianfard M.R., 2011, Electromagnetomechanical responses of a radially polarized rotating functionally graded piezoelectric shaft, *Turkish Journal of Engineering & Environmental Sciences* 36(1): 33-44.
15. M. Mohammadimehr, M. Moradi, A. Loghman, "Influence of the Elastic Foundation on the Free Vibration and Buckling of Thin-Walled Piezoelectric-Based FGM Cylindrical Shells Under Combined Loadings", *Journal of Solid Mechanics*, Vol. 6, No. 4 pp 347-365, 2014