



## Professor Milad Hemmatnezhad

**Middle image above is from:** Computational Research Progress in Applied Science & Engineering, Managing Editor is Milad Hemmatnezhad

**Right-most image above is from:** Milad Hemmatnezhad and Reza Ansari, "Finite element formulation for the free vibration analysis of embedded double-walled carbon nanotubes based on nonlocal Timoshenko beam theory", Journal of Theoretical and Applied Physics, Vol. 7, No. 6, December 2013

See:

[https://www.researchgate.net/profile/Milad\\_Hemmatnezhad2](https://www.researchgate.net/profile/Milad_Hemmatnezhad2)

Faculty of Mechanical Engineering, Islamic Azad University, Takestan, Iran

Formerly:

Faculty of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran

### Selected Publications:

R. Ansari, M. Darvizeh, and M. Hemmatnezhad, "Vibration analysis of FGM cylindrical shells under various boundary conditions," Journal of Agricultural Science and Technology, vol. 5, no. 3, pp. 129–138, 2008

Hemmatnezhad M., Ansari R., Darvizeh M.: Prediction of vibrational behavior of composite cylindrical shells under various boundary conditions. Appl. Compos. Mater. 17, 225–241 (2010)

Ansari, R., Hemmatnezhad, M., Ramezannezhad, H.: Application of HPM to the nonlinear vibrations of multiwalled carbon nanotubes. Numer. Methods Partial Differ. Equ. 26, 490–500 (2010)

Ansari, R., Hemmatnezhad, M.: Nonlinear finite element vibration analysis of double-walled carbon nanotubes based on Timoshenko beam theory. J. Vib. Control (2011). doi:10.1177/1077546311429838

Ansari R, Hemmatnezhad M, Rezapour J. The thermal effect on nonlinear oscillations of carbon nanotubes with arbitrary boundary conditions. Curr Appl Phys 2011;11:692–697.

Ansari R, Hemmatnezhad M. Nonlinear vibrations of embedded multi-walled carbon nanotubes using a variational approach. Math Comput Model 2011;53:927–938.

Rahimi, G. H., Ansari, R., Hemmatnezhad, M. (2011). Vibration of functionally graded cylindrical shells with ring support. Scientia Iranica 18 (6): 1313–

R. Ansari and M. Hemmatnezhad, "Nonlinear finite element analysis for vibrations of double-walled carbon nanotubes", Nonlinear Dynamics, Vol. 67, No. 1, pp 373–383, January 2012

Milad Hemmatnezhad and Reza Ansari, "Finite element formulation for the free vibration analysis of embedded double-walled carbon nanotubes based on nonlocal Timoshenko beam theory", Journal of Theoretical and Applied Physics, Vol. 7, No. 6, December 2013

G.H. Rahimi, M.S. Gazor, M. Hemmatnezhad, and H. Toorani, "On the postbuckling and free vibrations of FG Timoshenko beams," Compos. Struct., vol. 95, pp. 247–253, 2013.

M. Hemmatnezhad, R. Ansari, and G.H. Rahimi, "Large-amplitude free vibrations of functionally graded beams

by means of a finite element formulation,” *Appl. Math. Model.*, vol. 37, no. 18–19, pp. 8495– 8504, 2013.

G. H. Rahimi, M. Hemmatnezhad and R. Ansari, “Prediction of Vibrational Behavior of Grid-Stiffened Cylindrical Shells”, *Advances in Acoustics and Vibration*, Vol. 2014 (2014), Article ID 242573, 10 pages

R. Ansari, M.A. Ashrafi, T. Pourashraf and M. Hemmatnezhad, “Vibration analysis of a postbuckled microscale FG beam based on modified couple stress theory”, *Shock and Vibration*, Volume 2014, Article ID 654640, 20 pages

G.H. Rahimi, M.S. Gazor, M. Hemmatnezhad, H. Toorani, “Free vibration analysis of fiber metal laminate annular plate by state-space based differential quadrature method”, *Ann. Mater. Sci. Eng.* (2014), pp. 1-11

M. Hemmatnezhad, G.H. Rahimi and R. Ansari, “On the free vibrations of grid-stiffened composite cylindrical shells”, *Acta Mechanica*, Vol. 225, No. 2, pp 609-623, February 2014

M. Hemmatnezhad, G.H. Rahimi, M. Tajik and F. Pellicano, “Experimental, numerical and analytical investigation of free vibrational behavior of GFRP-stiffened composite cylindrical shells”, *Composite Structures*, Vol. 120, pp 509-518, February 2015

M. Zarei, G.H. Rahimi and M. Hemmatnezhad, “Free vibrational characteristics of grid-stiffened truncated composite conical shells”, *Aerospace Science and Technology*, Vol. 99, Article 105717, April 2020

M. Zarei, G.H. Rahimi and M. Hemmatnezhad, “Global buckling analysis of laminated sandwich conical shells with reinforced lattice cores based on the first-order shear deformation theory”, *International Journal of Mechanical Sciences*, Vol. 187, Article 105872, 1 December 2020