



## Professor Babak Mirzavand

From: Mirzavand, Babak, Pedram Rezapour, and Mehdi Bohlooly. "Thermal buckling of shallow/nonshallow piezoelectric-composite cylindrical shells." *Mechanics of Advanced Materials and Structures* 2015, no. 1537-6494 (2015): 1-33.

See:

<https://scholar.google.com/citations?user=MwsRaAgAAAAJ&hl=en>

<https://rtis2.ut.ac.ir/cv/mirzavand/?lang=en-gb>

[https://www.researchgate.net/profile/Babak\\_Mirzavand\\_Boroujeni](https://www.researchgate.net/profile/Babak_Mirzavand_Boroujeni)

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### Education:

B.Sc , 2001, Mechanical Engineering-Solid Mechanics, Isfahan University of Technology

M.Sc , 2004, Mechanical Engineering-Applied Mechanics, Amirkabir University of Technology

Ph.D , 2009, Mechanical Engineering-Applied Mechanics, Amirkabir University of Technology

### Selected Publications:

Mirzavand, Babak, Mohammad Reza Eslami, and Reza Shahsiah. "Effect of Imperfections on Thermal Buckling of Functionally Graded Cylindrical Shells." *AIAA Journal* 43, no. 9 (2005): 2073-2076.

Mirzavand, Babak, and Mohamad Reza Eslami . "Thermal Buckling of Imperfect Functionally Graded Cylindrical Shells Based on the Wan–Donnell Model." *Journal of Thermal Stresses* 29, no. 1 (2006): 37-55.

Mirzavand, Babak, and Mohamad Reza Eslami . "Thermal Buckling of Simply Supported Piezoelectric FGM Cylindrical Shells." *Journal of Thermal Stresses* 30, no. 11 (2007): 1117-1135.

Mirzavand, Babak, and Mohammad Reza Eslami . "Thermoelastic stability analysis of imperfect functionally graded cylindrical shells." *Journal of Mechanics of Materials and Structures* 3, no. 8 (2008): 1561-1572.

Mirzavand, Babak, Mohamadreza Eslami , and Mahmoud Shakeri . "Dynamic Thermal Postbuckling Analysis of Piezoelectric Functionally Graded Cylindrical Shells." *Journal of Thermal Stresses* 33, no. 7 (2010): 646-660.

Mirzavand, Babak, and Mohammad Reza Eslami . "A closed-form solution for thermal buckling of piezoelectric FGM rectangular plates with temperature-dependent properties." *Acta Mechanica* 218, no. 1-2 (2010): 87-101.

Mirzavand, Babak, and Mohammad Reza Eslami . "A Closed-Form Solution for Thermal Buckling of Piezoelectric FGM Hybrid Cylindrical Shells with Temperature Dependent Properties." *Mechanics of Advanced Materials and Structures* 18, no. 3 (2011): 185-193.

Mirzavand, Babak, Mohammad Reza Eslami, and J.n. Reddy. "Dynamic Thermal Postbuckling Analysis of Shear Deformable Piezoelectric-FGM Cylindrical Shells." *Journal of Thermal Stresses* 36, no. 3 (2013): 189-206.

Mirzavand, Babak, and Mohammad Reza Eslami. "Encyclopedia of Thermal Stresses, Book Chapter »thermal buckling and dynamic post- buckling analysis of piezoelectric FGM hybrid cylindrical shell." London: SPRINGER SCIENCE, 2013.

Mirzavand, Babak, and Mohammad Reza Eslami. "Encyclopedia of Thermal Stresses, Book Chapter » Thermoelastic Buckling of Imperfect FGM Cylindrical Shells ." London: SPRINGER SCIENCE, 2013.

Bohlooly, Mehdi, and Babak Mirzavand. "A Closed-Form Solution for Thermal Buckling of Cross-Ply Piezolaminated Plates." *International Journal of Structural Stability and Dynamics* 16, no. 0219-4554 (2015): 1450112.

Bohlooly, Mehdi, and Babak Mirzavand. "Closed form solutions for buckling and postbuckling analysis of imperfect laminated composite plates with piezoelectric actuators." *COMPOSITES PART B-ENGINEERING* 72, no. 1359-8368 (2015): 21-29.

Mirzavand, Babak, Pedram Rezapour, and Mehdi Bohlooly. "Thermal buckling of shallow/nonshallow piezoelectric-composite cylindrical shells." *Mechanics of Advanced Materials and Structures* 2015, no. 1537-6494 (2015): 1-33.

Mirzavand, Babak, and Mehdi Bohlooly. "Thermal Buckling of Piezolaminated Plates Subjected to Different Loading Conditions." *Journal of Thermal Stresses* 38, no. 10 (2015): 1140-1164.

Mirzavand, Babak, and Mehdi Bohlooly. "Thermomechanical buckling of hybrid cross-ply laminated rectangular plates." *Advanced Composite Materials: The Official Journal of the Japan Society of Composite Materials* 1, no. 1 (2016): 1-20.

Bohlooly, Mehdi, and Babak Mirzavand. "Postbuckling and deflection response of imperfect piezo-composite plates resting on elastic foundations under in-plane and lateral compression and electro-thermal loading." *Mechanics of Advanced Materials and Structures* 1, no. 1 (2016): 1-10.

Bohlooly, Mehdi, Babak Mirzavand, and Keramat Malekzadeh Fard. "An analytical approach for postbuckling of eccentrically or concentrically stiffened composite double curved panel on nonlinear elastic foundation." *Applied Mathematical Modelling* 62, no. 62 (2018): 415-435.

Mirzavand, Babak, and Mehdi Bohlooly. "Higher-order stability analysis of imperfect laminated piezo-composite plates on elastic foundations under electro-thermo-mechanical loads." *Journal of solid mechanics* 1, no. 1 (2018): 1-10.