

Fig. 3: Short seaming cylindrical buckling

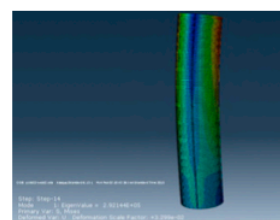


Fig. 4: Long seaming cylindrical buckling

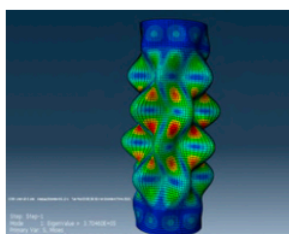


Fig. 5: Short seamless cylindrical buckling

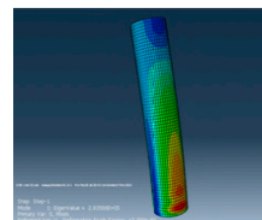


Fig.6: Long seamless cylindrical buckling

Professor Mohammad Mehdi Najafizadeh

From: Ali Ghorbani, Niloofar Bayat, Mohammad Mehdi Najafizadeh, "A theoretical and experimental analysis of critical buckling force of short and long cylindrical shells with a welded seam using argon method and their comparison with a seamless cylindrical shell", *Bulletin de la Société Royale des Sciences de Liège*, Vol. 85, pp 721-728, 2016

See:

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

<https://scholar.google.co.uk/citations?user=nLcItrUAAA&hl=en>

Applied Mechanics

Islamic Azad University – Arak, Iran

Selected Publications:

Ali Ghorbani, Niloofar Bayat, Mohammad Mehdi Najafizadeh, "A theoretical and experimental analysis of critical buckling force of short and long cylindrical shells with a welded seam using argon method and their comparison with a seamless cylindrical shell", *Bulletin de la Société Royale des Sciences de Liège*, Vol. 85, pp 721-728, 2016

F. Allahkarami, S. Satori and M.M. Najafizadeh, "Mechanical buckling of two-dimensional functionally graded cylindrical shells surrounded by Winkler-Pasternak elastic foundation", *Mechanics of Advanced Materials and Structures*, Vol. 23, No. 8, pp 873-887, 2016

Ebrahimi MJ., Najafizadeh MM., 2014, Free vibration analysis of two-dimensional functionally graded cylindrical shells, *Applied Mathematical Modelling* 38: 308-324.

R. Mohammadzadeh, M. M. Najafizadeh and M. Nejati, "Buckling of 2D-FG Cylindrical Shells under Combined External Pressure and Axial Compression", *Advances in Applied Mathematics and Mechanics*, Vol. 5, No. 3, pp. 391-406, June 2013

O. Miraliyari, M.M. Najafizadeh, A.R. Rahmani, and A. MomeniHezaveh, Thermal and Mechanical Buckling of Short and Long Functionally Graded Cylindrical Shells Using First Order Shear Deformation Theory, *World Academy of Science Engineering and Technology*, (2011) 74

P. Khazaeinejad, M. M. Najafizadeh, J. Jenabi and M. R. Isvandzibaei, "On the Buckling of Functionally

Graded Cylindrical Shells Under Combined External Pressure and Axial Compression”, *Journal of Pressure Vessel Technology*, Vol. 132, No. 6, 064501, 2010

P. Khazaeinejad, M. M. Najafizadeh, “Mechanical Buckling of Cylindrical Shells with Varying Material Properties”, *Journal of Mechanical Engineering Science*, vol. 224, pp. 1551-1557, 2010.

M. M. Najafizadeh, A. Hasani, P. Khazaeinejad, “Mechanical stability of Functionally Graded Stiffened Cylindrical Shells”, *Journal of Applied Mechanical Modelling*, vol. 33, pp. 1151-1157, 2009.

M.M. Najafizadeh, et.al, "Mechanical stability of functionally graded stiffened cylindrical shells", Ph. D thesis, Department of Mechanical Engineering,, Arak Branch, Islamic Azad University, Arak 38135-567, Iran, 2008.

Najafizadeh M.M., Heydari H.R.: An exact solution for buckling of functionally graded circular plates based on higher order shear deformation plate theory under uniform radial compression. *Int. J. Mech. Sci.* 50, 603–612 (2008)

Najafizadeh M.M., Isvandzibaei M.R., 2007, Vibration of functionally graded cylindrical shells based on higher order shear deformation plate theory with ring support, *Acta Mechanica* 191: 75-91

Najafizadeh M.M., Heydari H.R.: Thermal buckling of functionally graded circular plates based on higher order shear deformation plate theory. *Eur. J. Mech. A Solids* 23, 1085–1100 (2004)

Najafizadeh M, Hedayati B. Refined theory for thermoelastic stability of functionally graded circular plates. *J Therm Stress* 2004;27(9):857–80.

Najafizadeh, M. M., and Eslami, M. R., 2002, “First-Order-Theory Based Thermoelastic Stability of Functionally Graded Material Circular Plates,” *AIAA J.*, 40, pp. 1444–1450.

Najafizadeh, M. M., and Eslami, M. R., 2002, “Buckling Analysis of Circular Plates of Functionally Graded Material Under Uniform Radial Compression,” *Int. J. Mech. Sci.*, 44, pp. 2479–2493