



**Professor Alireza Shaterzadeh**

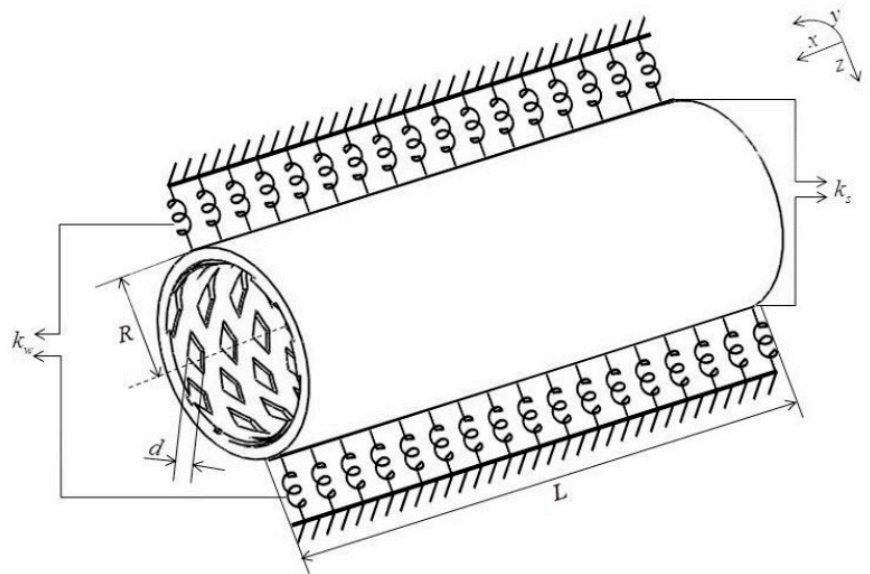


Fig. 1 Configuration of stiffened cylindrical shell surrounded with foundation

From: A.R. Shaterzadeh and K. Foroutan, "Post-buckling of cylindrical shells with spiral stiffeners under elastic foundation", Journal of Structural Engineering and Mechanics, 60(4), pp.615-631, 2016

See:

<https://scholar.google.com/citations?user=gdYXyK0AAAAAJ&hl=en>

<http://shahroodut.ac.ir/en/as/?id=S431>

<http://shahroodut.ac.ir/en/as/usercv.php?id=S431>

Department of Mechanical Engineering  
Shahrood University of Technology, Iran

#### Education:

PhD in Mechanical Engineering at University of Guilan (2005-2011) Thesis Title: "The Effects of Piezoelectrics on Thermo-elastic Post-buckling of Composite Hemispherical Shells with a Cut-out"

Msc in Mechanical Engineering at University of Guilan (2003-2005) Dissertation Title: "Static and Dynamic Analysis Composite Cylindrical Shells Conveying Hot or Cold Fluid"

Bsc in Mechanical Engineering at Razi University (1999-2003)

#### Research Interests:

Buckling and post-buckling; Vibrations; Nonlinear analysis, Composites; Functionally graded

#### Selected Publications:

M. Darvizeh, A. Darvizeh, A.R. Shaterzadeh and R. Ansari, "Thermal buckling analysis of moderately thick composite cylindrical shells under axi-symmetric thermal loading", Aerospace Mechanics Journal, 3(2), pp.99-107, 2007. (in Persian)

M. Darvizeh, A. Darvizeh, A.R. Shaterzadeh and R. Ansari, "Thermal buckling of spherical shells with cut-out", Journal of Thermal Stresses, 33(5), pp.441-58, 2010.

M. Darvizeh, A. Darvizeh, A.R. Shaterzadeh and R. Ansari, "Active control of thermal buckling of shells of

revolution using piezoelectric patches”, *Journal of Thermal Stresses*, 34(1), pp.75-93, 2011 .

A.R. Shaterzadeh, M. Darvizeh, A. Darvizeh and R. Ansari, “Thermal post-buckling of shells of revolution”, *Journal of Thermal Stresses*, 34, pp.1035-1053, 2011 .

A.R. Shaterzadeh, “Free vibration analysis of composite hemispherical shells with cut-out”, *Journal of Solids and Fluids Mechanic*, 3(1), pp.33-42, 2014. (in Persian)

A.R. Shaterzadeh, S. Abolghasemi and R. Rezaei, “Finite element analysis of thermal buckling of rectangular laminated composite plates with circular cutout”, *Journal of Thermal Stresses*, 37(5), pp.604-623, 2014 .

S. Abolghasemi, A.R. Shaterzadeh and R. Rezaei, “Thermo-mechanical buckling analysis of functionally graded plates with an elliptic cutout”, *Journal of Aerospace Science and Technology*, 39, pp.250-259, 2014 .

R. Rezaei, A.R. Shaterzadeh and S. Abolghasemi, “Buckling analysis of rectangular functionally graded plates with an elliptic hole under thermal loads”, *Journal of Solid Mechanics*, 7(1), pp.41-57, 2015 .

A.R. Shaterzadeh, R. Rezaei and S. Abolghasemi, “Thermal buckling analysis of perforated functionally graded plates”, *Journal of Thermal Stresses*, 38, pp.1250- 1268, 2015 .

A.R. Shaterzadeh and K. Foroutan, “Post-buckling analysis of eccentrically stiffened FGM cylindrical shells under external pressure and elastic foundation”, *Modares Mechanical Engineering*, 15(7), pp.80-88, 2015. (in Persian)

A.R. Shaterzadeh, “Thermo-mechanical buckling analysis of FGM plates with circular cut out”, *Journal of Solids and Fluids Mechanic*, 5(2), pp.99-109, 2015. (in Persian)

A.R. Shaterzadeh and K. Foroutan, “Post-buckling of cylindrical shells with spiral stiffeners under elastic foundation”, *Journal of Structural Engineering and Mechanics*, 60(4), pp.615-631, 2016.

H. Behzad, A.R. Shaterzadeh and M. Shariyat, “Thermal buckling analysis of functionally graded perforated annular sector plates using 3D elasticity theory”, *Journal of Thermal Stresses*, 40(12), pp. 1545-1562, 2017.

A.R. Shaterzadeh and K. Foroutan, “Non-linear dynamic analysis of asymmetrical eccentrically stiffened FGM cylindrical shells with non-linear elastic foundation under external pressure”, *Journal of Solid Mechanics*, 9(4), pp.849-864, 2017.

A.R. Shaterzadeh and M. Taheri, “Buckling analysis of composite truncated conical shells under mechanical loading in thermal environments”, *International Journal of Mechanical and Production Engineering*, 5(10), pp.74-77, 2017.

A.R. Shaterzadeh and K. Foroutan, “Nonlinear dynamic analysis of eccentrically stiffened FGM cylindrical shells with elastic foundation under uniform external pressure”, *Aerospace Mechanics Journal*, 14(1), pp.11-26, 2018. (in Persian)

S. Karamian and A.R. Shaterzadeh, “Nonlinear hygro-thermo-mechanical buckling analysis of eccentrically stiffened thin FG cylindrical panel on elastic foundations”, *Modares Mechanical Engineering*, 18(2), pp. 73-83, 2018. (in Persian)

A.R. Shaterzadeh, H. Behzad, and M. Shariyat, “Stability analysis of composite perforated annular sector plates under thermomechanical loading by finite element method”, *International Journal of Structural Stability and Dynamics*, 18(7), 1850100 (1-23), 2018.

K. Foroutan, A.R. Shaterzadeh and H. Ahmadi, “Nonlinear dynamic analysis of spiral stiffened functionally graded cylindrical shells with damping and nonlinear elastic foundation under axial compression”, *Journal of Structural Engineering and Mechanics*, 66(3), pp.295-303, 2018.

M. Shariyat, H. Behzad and A.R. Shaterzadeh, “3D thermomechanical buckling analysis of perforated annular sector plates with multiaxial material heterogeneities based on curved B-spline elements”, *Composite Structures*, 188, pp.89-103, 2018.

H. Behzad, A.R. Shaterzadeh and M. Shariyat, “Mechanical buckling analysis of composite annular sector plate with bean-shaped cut-out using three dimensional finite element method,” *Journal of Solid Mechanics*, Accepted.

Alireza Shaterzadeh, Kamran Foroutan and Habib Ahmadi, "Nonlinear static and dynamic thermal buckling analysis of spiral stiffened functionally graded cylindrical shells with elastic foundation", International Journal of Applied Mechanics, Vol. 11, No. 1, 1950005, 2019