



Professor Karim Abedi



From: Sirous Aghajari, Hossein Showkati and Karim Abedi, "Experimental investigation on the buckling of thin cylindrical shells with two-stepwise variable thickness under external pressure", *Structural Engineering & Mechanics*, Vol. 39, No. 6, September 2011

See:

<http://www.sut.ac.ir/en/showpage.aspx?id=18>

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Education:

Ph. D. 1993-1997, Department of Civil Engineering, University of Surrey, England.

M. Sc. 1987-1989, Department of Civil Engineering, Tabriz University, Tabriz, Iran.

B. Sc., 1981-1986, Department of Civil Engineering, Amirkabir University of Technology, Tehran, Iran.

Research Interests:

Space structures, Steel structures, Finite element method, Structural stability

Selected Publications:

1. Abedi, K and Parke, G A R, "Progressive Collapse of Single-Layer Braced Domes", *International Journal of Space Structures*, Vol. 11, No. 2, pp 291-305, 1996.
2. Parke, G A R, Toy, N, Savory, E, Abedi, K and Chenaghloou, R, "Appraisal of Deployable Dome Structures under Wind Loading", *Wind and Structures*, Vol. 1, No. 4, 1998.
3. Sheidaii, M R, Parke G A R, Abedi, K and Behraves, A, "Dynamic Snap-Through Buckling of Truss-Type Structures", *International Journal of Space Structures*, Vol. 16, No. 2, 2001.
4. Abedi, K and Parke G A R, "Experimental Study of Dynamic Propagation of Local Snap-Through in Single-Layer Braced Domes", *International Journal of Space Structures*, Vol. 16, No. 2, 2001.

5. Sheidaii, M R, Abedi, K, Behraves, A and Parke, G A R, "An Investigation into the Collapse Behaviour of Double Layer Space Trusses", *Iranian Journal of Science & Technology*, Vol. 27, No. B1, 2003.
9. Aghajari, S, Abedi, K and Showkati, H, "Buckling and Post-Buckling Behaviour of Thin-Walled Cylindrical Steel Shells with Varying Thickness Subjected to Uniform External Pressure", *Thin-Walled Structures*, Vol. 44, 2006.
12. Abedi, K and Parke, G A R, "Investigation into the Behaviour of a Ductile Multi-Tubular Force Limiting Device", *Iranian Journal of Science & Technology*, Vol. 31, No. B2, 2007.
17. Abedi, K and Shekastehband, B, "Static Stability Behaviour of Plane Double-Layer Tensegrity Structures", *International Journal of Space Structures*, Vol. 23, No. 2, 2008.

Yavar Hassempour Fakhim, Hossein Showkati and K. Abedi, "Experimental study on the buckling and post-buckling behavior of thin-walled cylindrical shells with varying thickness under hydrostatic pressure", *Proceedings of the International Association for Shell and Spatial Structures (IASS) Symposium 2009*, edited by Alberto Domingo and Carlos Lazaro, Valencia, Universidad Politecnica de Valencia, Spain, pp 2511-2522

26. Aghajari, S, Showkati, H, and, Abedi, K, "Experimental Investigation on Thin Cylindrical Shells with Two-Stepwise Variable Thickness", *Structural Engineering and Mechanics, an International Journal*, Vol. 39, No. 6, 2011.
29. Shahbazi, Y, Chenaghlou, M R, Abedi, K, Khosrowjerdi, M J, and Preumont, A, "A New Energy Harvester Using Cross-Ply Cylindrical Membrane Shell Integrated with PVDF Layers", *Microsystem Technologies*, Vol. 18, No.12, December 2012, Pages 1981-1989.
30. Mohammadi, M, Abedi, K and Taghizadieh, N, "Stability Analysis of Single-Layer Barrel Vault Space Structures", *International Journal of Space Structures*, Vol. 27, No. 4, 2012.
32. Dadkhah Khiabani, E, Mostafa Gharabaghi, A, R and Abedi, K, "Investigation into the Effects of Buckle Arrestors on the Arresting of Dynamic Buckle Propagation in Pipelines", *Journal of Marine Engineering*, Volume 8, No. 16, Fall & Winter 2012.
36. Omrani, Z, Abedi, K and Mostafa Gharabaghi, A, "Effects of Diameter to Thickness Ratio and External Pressure on the Velocity of Dynamic Buckle Propagation in Offshore Pipelines", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 135, No. 4, 2013.
40. Shekastehband, B and Abedi, K, "Dynamic Propagation of Snap-Through Buckling in Tensegrity Structures", *International Journal of Structural Stability and Dynamics*, Vol. 14, No. 1, 2014.
41. Shekastehband, B, Abedi, K and Dianat, N, "Experimental and Numerical Studies on the Progressive Collapse Behavior of Tensegrity Systems", *International Journal of Space Structures*, Vol. 29, No. 1, 2014.
44. Abbasi Mousavi, M, Abedi, K and Chenaghlou, M R, "Imperfection Sensitivity Analysis of Double Domes Free Form Space Structures", *International Journal of Structural Stability and Dynamics*, Vol. 15, No. 4, 2015.