



Professor Payam Khazaeinejad

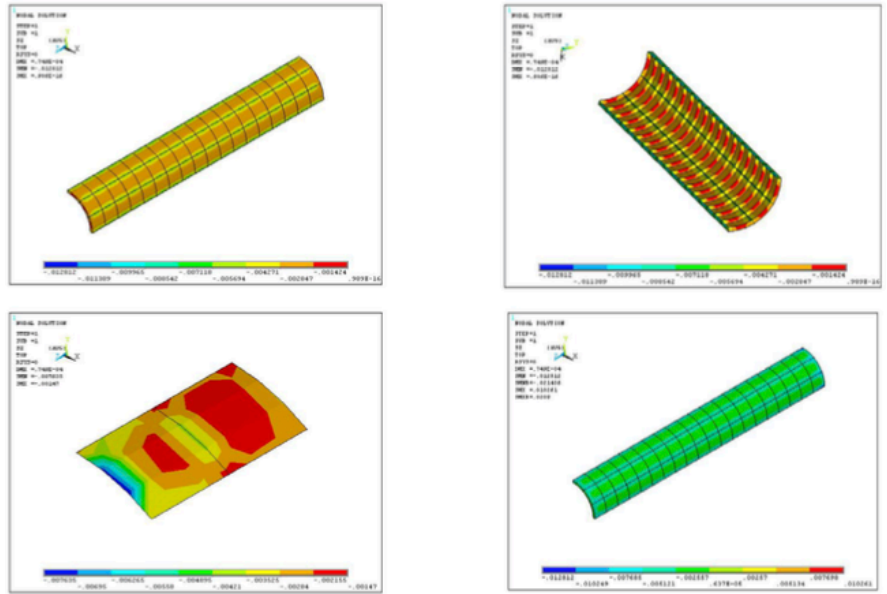


FIG. 4 FEM RESULTS FOR FG STIFFENED CYLINDRICAL SHELL WITH ISOTROPIC RINGS AND STRINGERS.

From: 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.

See:

<https://www.kingston.ac.uk/staff/profile/dr-payam-khazaeinejad-701/>

<https://scholar.google.com/citations?user=Kvc66oIAAAAJ&hl=en>

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

<https://uk.linkedin.com/in/payam-khazaeinejad-a75a5958>

Department of Mechanical Engineering
Kingston University London, UK

Autobiography:

I am a lecturer (Assistant Professor) in Solid Mechanics in the Department of Mechanical Engineering at Kingston University. Prior to my appointment at Kingston, I was a Research Fellow at Brunel University London. I received my PhD from the University of Edinburgh. I have been the recipient of the US National Science Foundation (NSF) Travel Award from Stanford University, Edinburgh Award (Work Experience) and Edinburgh Research Partnership in Engineering (ERPE) Funding from the University of Edinburgh. My research interests lie within the broad area of Computational Solid and Structural Mechanics, with focus on the modelling and analysis of advanced materials and structures at different length scales. My current research is aimed at: (i) better understanding of the interactions between different load-carrying mechanisms which determine the overall behaviour of structures under different loading and support conditions and (ii) establishing complex relationships between internal structures of advanced materials and their thermal and mechanical properties using novel computational approaches.

Research Interests:

Computational solid mechanics; Computational structural mechanics; Structural stability and dynamics; Composite structures; Finite element and advanced numerical methods

Selected Publications:

- R. Narimani, M. Karami Khorramabadi, P. Khazaeinejad, Mechanical buckling of functionally graded cylindrical shells based on the first order shear deformation theory, ASME Pressure Vessels and Piping Division Conference, 2007, San Antonio, Texas, USA.
- M. Karami Khorramabadi, M.M. Najafizadeh, J. Alibabaei Shahraki and P. Khazaeinejad, "Effect of shear theories on free vibration of functionally graded plates", World Academy of Science, Engineering and Technology, Vol. 24, 2008
- M. Karami Khorramabadi and P. Khazaeinejad, "On Stability of Stiffened Cylindrical Shells with Varying Material Properties", World Academy of Science, Engineering and Technology, Vol. 3, August 2009
- Najafizadeh, M.M., Hasani, A. and Khazaeinejad, P., 'Mechanical stability of functionally graded stiffened cylindrical shells', Applied Mathematical Modelling, Volume 33, pp 1151-1157, 2009.
- 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.
- 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 (6 pages), 2010
- P. Khazaeinejad, M.M. Najafizadeh, X.H. Wang and M. Tanbakuei Kashani, "FEM buckling analysis of functionally graded toroidal shells", Proceedings of the Second Asian Conference on Mechanics of Functional Materials and Structures, October 22-25, 2010, Nanjing, China
- P. Khazaeinejad, M.M. Najafizadeh and X.H. Wang, "Buckling of functionally graded toroidal shells under external pressure", 16th International Conference on Composite Structures (ICCS 16), A.J.M. Ferreira (Editor), FEUP, Porto, 2011
- Jian Jiang, Payam Khazaeinejad and Asif Usmani, "Nonlinear analysis of shell structures in fire using OPENSEES", Proceedings of the 20th UK Conference of the Association for Computational Mechanics in Engineering, 27-28 March, 2012, The University of Manchester, UK
- P. Khazaeinejad, A.S. Usmani and O. Laghrouche, "Nonlinear stress analysis of plates under thermo-mechanical loads", Modern Practice in Stress and vibration Analysis 2012 (MPSVA 2012), IOP Journal of Physics: Conference series, Vol. 382, 012022, 2012
- Payam Khazaeinejad, Asif S. Usmani and Omar Laghrouche, "Transient thermoelastic analysis of plates by hybrid-Trefftz method", ICOVP-2013, Lisbon, 9-12 September 2013
- P. Khazaeinejad, A.S. Usmani and O. Laghrouche, "An analytical study of the nonlinear thermo-mechanical behaviour of thin isotropic rectangular plates", Computers & Structures, Vol. 141, pp 1-8, August 2014
- P. Khazaeinejad, A.S. Usmani and O. Laghrouche, "Temperature-dependent nonlinear behaviour of thin rectangular plates exposed to through-depth thermal gradients", Composite Structures, May 2015
- P. Khazaeinejad and A.S. Usmani, "Temperature-dependent nonlinear analysis of shallow shells: A theoretical approach", Composite Structures, Vol. 141, pp 1-13, May 2016
- P. Khazaeinejad and A.S. Usmani, "On thermo-mechanical nonlinear behaviour of shallow shells", International Journal of Non-Linear Mechanics, Vol. 82, pp 114-123, June 2016
- T.K. Papathanasiou, S. Markolefas, P. Khazaeinejad and H. Bahai, "An efficient structural finite element for inextensible flexible risers", First Conference of Computational Methods in Offshore Technology (COTech2017), IOP Conf. Series: Materials Science and Engineering, Vol. 276, 012023, 2017