Professor Kamran Asemi

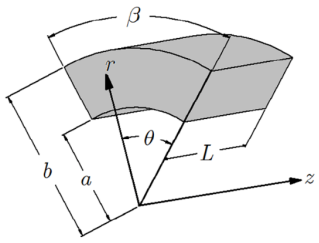

Figure 1: Geometry of the cylindrical panel

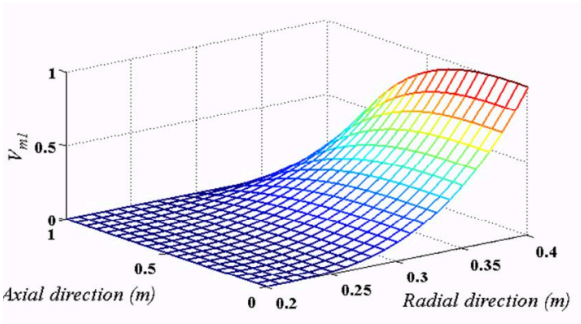

Figure 2: Volume fraction distribution of ml with $n_r = n_z = 3$

From: Hassan Zafamand, Manouchehr Salehi and Kamran Asemi, "Three dimensional free vibration and transient analysis of two directional functionally graded thick cylindrical panels under impact loading", Latin American Journal of Solids and Structures, Vol. 12, pp 205-225, 2015

See:
https://scholar.google.com/citations?user=UY1znfYAAAAJ&hl=en
https://www.researchgate.net/profile/Kamran_Asemi

Mechanical Engineering Department
Islamic Azad University, Tehran North Branch, Iran

Selected Publications:

Asemi, K., Salehi, M., Akhlaghi, M.: Elastic solution of a two-dimensional functionally graded thick truncated cone with finite length under hydrostatic combined loads. Acta Mech. 217, 119–134 (2011)
K. Asemi, M. Akhlaghi, M. Salehi, S.K.H. Zad, Analysis of functionally graded thick truncated cone with finite length under hydrostatic internal pressure, Arch. Appl. Mech., 81 (8) (2011), pp. 1063-1074
H. Ashrafi, M. Shariyat and K. Asemi, "A time-domain boundary element method for quasistatic thermoviscoelastic behavior modeling of the functionally graded materials", International Journal of Mechanics and Material Design, 2013, DOI 10.1007/s10999-013-9220-3
Asemi, K., Shariyat, M., Salehi, M. and Ashrafi, H. [2013] " A full compatible three-dimensional elasticity element for buckling analysis of FGM rectangular plates subjected to various combinations of biaxial normal and shear loads," Finite Elements in Analysis and Design 74, 9–21.
Asemi, K., Salehi, M., Akhlaghi, M.: Three dimensional static analysis of two dimensional functionally graded plates. Int. J. Recent Adv. Mech. Eng. (IJMECH) 2, 21–32 (2013)
Asemi K, Shariyat M. Highly accurate nonlinear three-dimensional finite element elasticity approach for biaxial buckling of rectangular anisotropic FGM plates with general orthotropy directions. Composite Structures. 2013;106:235-249
H. Ashrafi, M. Shariyat, S.M.R. Khalili, K. Asemi, A boundary element formulation for the heterogeneous functionally graded viscoelastic structures, Appl Math Comput, 225 (2013), pp. 246-262
Ashrafi, H., Asemi, K., Shariyat, M., (2013). A three dimensional boundary element stress and bending analysis of transversely/longitudinally graded plates with circular cutouts under biaxial loading. European Journal of Mechanics A Solids 42: 344-357
H. Ashrafi, K. Asemi, M. Shariyat, M. Salehi, Two-dimensional modeling of heterogeneous structures using graded finite element and boundary element methods, Meccanica, 48 (3) (2013), pp. 663–680
K. Asemi, H. Ashrafi, M. Salehi, M. Shariyat, Three-dimensional static and dynamic analysis of functionally graded elliptical plates, employing graded finite elements, Acta Mech., 224 (8) (2013), pp. 1849-1864

K. Asemi, M. Salehi, M. Akhlaghi, Transient thermal stresses in functionally graded thick truncated cones by graded finite element method, Int. J. Press. Vessels Piping, 119 (2014), pp. 52-61
Asemi, K., Salehi, M. and Akhlaghi, M. [2014] " Post-buckling analysis of FGM annular sector plates based on three dimensional elasticity graded finite elements," International Journal of Non-Linear Mechanics 67, 164–177.
Asemi, K., Salehi, M. and Akhlaghi, M. [2014] " Three-dimensional biaxial buckling analysis of functionally graded annular sector plate fully or partially supported on Winkler elastic foundation," Aerospace Science and Technology 39, 426–441.
Asemi, K., Salami, S. J., Salehi, M., Sadighi, M. (2014). Dynamic and static analysis of FGM skew plates with 3D elasticity based graded finite element modeling. Latin American Journal of Solids and Structures 11: 504–533
Shariyat, M. and Asemi, K. (2014), "Three-dimensional non-linear elasticity-based 3D cubic B-spline finite element shear buckling analysis of rectangular orthotropic FGM plates surrounded by elastic foundations", Compos. B Eng., 56, 934-947.
Asemi, K., Salehi, M. and Sadighi, M. (2014), "Three dimensional static and dynamic analysis of two dimensional functionally graded annular sector plates", Struct. Eng. Mech., 51, 1067-1089.
Asemi, K., Salehi, M. and Akhlaghi, M. [2015] " Three-dimensional graded finite element elasticity shear buckling analysis of FGM annular sector plates," Aerospace Science and Technology 43, 1–13.
Hassan Zafamand, Manouchehr Salehi and Kamran Asemi, "Three dimensional free vibration and transient analysis of two directional functionally graded thick cylindrical panels under impact loading", Latin American Journal of Solids and Structures, Vol. 12, pp 205-225, 2015
Asemi, K. and Salami, S. J. [2015] " A study on low velocity impact response of FGM rectangular plates with 3D elasticity based graded finite element modeling," JTAM Journal of Theoretical and Applied Mechanics 53, 859–872
Kamran Asemi and Yasser Kiani, "Postbuckling up to collapse of polar orthotropic linearly elastic rings subjected to external pressure", International Journal of Structural Stability and Dynamics, Vol. 16, No. 2, 1450091, March 2016
K. Asemi and M. Shariyat, "Three-dimensional biaxial post-buckling analysis of heterogeneous auxetic rectangular plates on elastic foundations by new criteria", Computer Methods in Applied Mechanics and Engineering, Vol. 302, pp 1-26, April 2016
M. Shariyat and K. Asemi, "3D energy-based finite element elasticity approach for shear postbuckling analysis of functionally graded plates on elastic foundations," Compos. Struct., vol. 152, pp. 579–591, 2016
Masoud Babaei, Mohammad Hadi Hajmohammad and Kamran Asemi, "Natural frequency and dynamic analyses of functionally graded saturated porous annular sector plate and cylindrical panel based on 3D elasticity", Aerospace Science and Technology, Vol. 96, Article 105524, January 2020