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Selected Publications:

Ferreira, A.J.M., Roque, C.M.C., Neves, A.M.A., Jorge, R.M.N., Soares, C.M.M. and Reddy, J.N. (2011), “Buckling analysis of isotropic and laminated plates by radial basis functions according to a higher-order shear deformation theory”, *Thin-Wall. Struct.*, 49(7), 804-811.

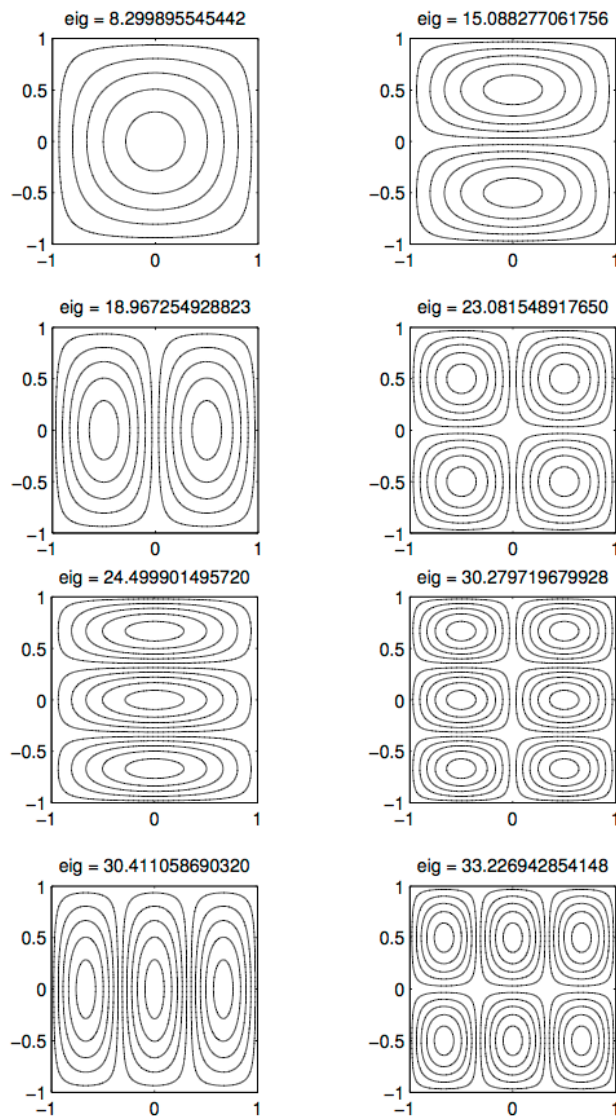


Figure 2: First eight vibration modes of the simply-supported cross-ply laminated square plate $[0^\circ/90^\circ/90^\circ/0^\circ]$, $E_1/E_2 = 10$, 13×13 nodes

From: A.M.A. Neves and A.J.M. Ferreira, “Free vibrations and buckling analysis of laminated plates by oscillatory radial basis functions”, *Curved and Layered Structures*, Vol. 3, No. 1, pp 17-21, December 2015

- Ferreira A.J.M., Roque C.M.C., Neves A.M.A., Jorge R.M.N., Soares C.M.M., and Liew K.M. (2011) Buckling and vibration analysis of isotropic and laminated plates by radial basis functions, *Composite Part B* 42, pp. 592-606.
- Neves AMA, Ferreira AJM, Carrera E, Cinefra M, Jorge RMN, Soares CMM. Static analysis of functionally graded sandwich plates according to a hyperbolic theory considering Zig-Zag and warping effects. *Adv Eng Softw* 2012;52:30–43
- A.M.A. Neves, A.J.M. Ferreira, E. Carrera, M. Cinefra, C.M.C. Roque, R.M.N. Jorge, C.M.M. Soares, Buckling behaviour of cross-ply laminated plates by a higher-order shear deformation theory, *Sci. Eng. Compos. Mater.*, 19 (2012), pp. 119–125
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- A.M.A. Neves, A.J.M. Ferreira, E. Carrera, M. Cinefra, C.M.C. Roque, R.M.N. Jorge and C.M.M. Soares, “Free vibration analysis of functionally graded shells by a higher-order shear deformation theory and radial basis functions, collocation, accounting for through-the-thickness deformations, *European Journal of Mechanics – A/Solids*, Vol. 37, pp 24-34, January-February 2013
- A.M.A. Neves, A.J.M. Ferreira, E. Carrera, M. Cinefra, C.M.C. Roque, R.M.N. Jorge and C.M.M. Soares, “Static, free vibration and buckling analysis of isotropic and sandwich functionally graded plates using a quasi-3D higher-order shear deformation theory and a meshless technique”, *Composites Part B: Engineering*, Vol. 44, No. 1, pp 657-674, January 2013
- A.J.M. Ferreira, A.L. Araújo, A.M.A. Neves, J.D. Rodrigues, E. Carrera, M. Cinefra, et al., “A finite element model using a unified formulation for the analysis of viscoelastic sandwich laminates”, *Compos Part B: Eng*, 45 (1) (2013), pp. 1258-1264
- A.M.A. Neves and A.J.M. Ferreira, “Free vibrations and buckling analysis of laminated plates by oscillatory radial basis functions”, *Curved and Layered Structures*, Vol. 3, No. 1, pp 17-21, December 2015
- Bo Liu, A.J.M. Ferreira, Y.F. Xing and A.M.A. Neves, “Analysis of functionally graded sandwich and laminated shells using a layerwise theory and a differential quadrature finite element method”, *Composite Structures*, Vol. 136, pp 546-553, February 2016
- Francesco Tornabene, Nicholas Fantuzzi, Michele Baccocchi, Ana M.A. Neves and Antonio J.M. Ferreira, “MLSDQ based on RBFs for the free vibrations of laminated composite doubly-curved shells”, *Composites Part B: Engineering*, Vol. 99, pp 30-47, August 2016
- B. Liu, A.J.M. Ferreira, Y.F. Xing, A.M.A. Neves, Analysis of functionally graded sandwich and laminated shells using a layerwise theory and a differential quadrature finite element method, *Compos Struct*, 136 (2016), pp. 546–553
- Y.F. Xing, Yang Wu, Bo Liu, A.J.M. Ferreira and A.M.A. Neves, “Static and dynamic analyses of laminated plates using a layerwise theory and a radial basis function finite element method”, *Composite Structures*, Vol. 170, pp 158-168, June 2017