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Education:

B.Eng. (Civil Engineering) 1986, M.M.M.E.C., Gorakhpur University
M.Eng. (Structures) 1988, M.N.R.E.C., University of Allahabad
Ph.D. 2001, Indian Institute of Technology, Delhi

Research Interests:

Composite Plates and Shells, Smart Structures, Retrofitting & Strengthening of RCC Structures, Computational Mechanics, Stability & Dynamics of Structures, Multi-scale Composites

Selected Publications:

“Non-linear Flexural and Dynamic Response of CNT Reinforced Laminated Composite Plates”, Bhardwaj, G., Upadhyay, A.K., Pandey, R., and Shukla, K.K., Composites Part B, 45, 89-100 (2013).

“Nonlinear flexural analysis of functionally graded plates under different loadings using RBF based meshless

method”, Singh, Jeeoot and Shukla, K.K., *Engineering Analysis with Boundary Elements*, Vol. 36, 1819-1827 (2012).

“Large Deformation Flexural Behavior of Laminated Composite Skew Plates: An Analytical Approach” Upadhyay, A.K. and Shukla, K.K., *Composite Structures*, Vol. 94, 3722-3735 (2012)

“Geometrically Nonlinear Static and Dynamic Analysis of Functionally Graded Skew Plates” Upadhyay, A.K. and Shukla, K.K., *Communications in Nonlinear Sciences and Numerical Simulation*, (Accepted).

“Nonlinear Dynamic Response of Elastically Supported Laminated Composite Plates” Pandey, R., Upadhyay, A.K., Shukla, K.K., and Jain A., *Int. J. Mechanics of Advanced Materials and Structures*, Vol. 19 (6), 397-420, 2012.

“Nonlinear flexural analysis of laminated composite plates using RBF based meshless method”, Singh, Jeeoot and Shukla, K.K., *Composite Structures*, Vol. 94, 1714-1720 (2012).

“Nonlinear dynamic response of laminated composite plates subjected to pulse loading” by A.K.Upadhyay, R. Pandey, and K.K.Shukla, *Communications in Nonlinear Sc. Numerical Simulation*, Vol. 16, 4530-4544 (2011).

Nonlinear Flexural Response of Laminated Composite Plates under Hygro-Thermo- Mechanical Loading by Upadhyay, A.K, Pandey, R., and Shukla, K.K., *Communications in Nonlinear Sc. Numerical Simulation*, 15(9), 2634-2650, (2010).

Hygrothermoelastic postbuckling response of laminated composite plates by Pandey R., Upadhyay A.K. and Shukla K.K., *J. Aerospace Engg., ASCE*, 23(1), 1-13, (2010).

Nonlinear free vibration analysis of composite plates with material uncertainties: A Monte Carlo simulation approach by Singh B.N., Bist A.K., Pandit M.K., Shukla K.K., *J. Sound & Vibration*, 324(1-2) 2009 (2009).

Thermoelastic stability analysis of laminated composite plates: An analytical approach by Pandey R., Shukla K.K. and Jain A., *Communications in Nonlinear Sc. Numerical Simulation*, 14, 1679-1699 (2009).

Nonlinear flexural analysis of laminated composite plates by Pandey R., Shukla K.K. and Jain A., *Int. J. Applied Mechanics & Engineering*, 13(3), 707-733 (2008).

Second order statistics of natural frequencies of smart laminated composite plates with random material properties by Singh B.N., Umrao A. and Shukla K.K., *Smart Structures and Systems: An Int. Journal*, 4(1) (2008).

Postbuckling response of functionally graded rectangular plates subjected to thermo-mechanical loading by Shukla K.K., Ravi Kumar K.V., Pandey R. and Nath Y., *Int. J. Structural Stability and Dynamics*, 7(3), 519-541 (2007).

Nonlinear stability and dynamics of laminated composite plates and shells by Singh S., Sharma A., Patel B.P., Shukla K.K. and Nath Y., *Vibration Problems: Springer*, 415-427 (2007).

Free vibrations of laminated composite conical panels with random material properties by Tripathi V., Singh B.N. and Shukla K.K., *Composite Structures*, 81(1), 96-104 (2007).

Postbuckling analysis of functionally graded rectangular plates by Wu T.L., Shukla K.K. and Huang J.H., *Composite Structures*, 81(1), 1-10 (2007).

Nonlinear static and dynamic analysis of functionally graded plates by Wu T.L., Shukla K.K. and Huang J.H., *Int. J. Applied Mechanics & Engineering*, 11(3), 679-698 (2006).

Nonlinear thermo-elastic buckling characteristics of cross-ply laminated joined conical- cylindrical shells by Patel B.P., Nath Y. and Shukla K.K., *Int. J. Solids and Structures*, 43, 4810-4829 (2006).

Nonlinear thermoelastic stability characteristics of cross-ply laminated oval cylindrical/conical shells by Patel B.P., Shukla K.K. and Nath Y., *Finite Elements in Analysis and Design*, 42, 1061-1070 (2006).

Thermal postbuckling analysis of laminated cross-ply truncated circular conical shells by Patel B.P., Shukla K.K. and Nath Y., *Composite Structures*, 71(1), 101-114 (2005).

Buckling and transient behaviour of layered composite plates under thermomechanical loading by Shukla K.K., Nath Y. and Kreuzer E., *ZAMM*, 85(3), 163-175 (2005).

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Thermo-elastic stability behaviour of laminated cross-ply elliptical shells by Patel B.P., Shukla K.K. and Nath Y., *Structural Engineering and Mechanics*, 19(6), 749-755 (2005).

Postbuckling of cross-ply laminated rectangular plates containing short random fibres by Huang J.H. and Shukla K.K., *Composite Structures*, 68(3), 255-265 (2005).

Buckling of laminated composite rectangular plates by Shukla K.K., Nath Y., Kreuzer E. and Sateesh K.V., *J. Aerospace Engg., ASCE*, 18(4), 215-223 (2005).

Thermal postbuckling of laminated composite plates with temperature dependent properties by Shukla K.K., Huang J.H., Nath Y., *J. Engineering Mechanics, ASCE*, 130(7), 818-825 (2004).

Thermal buckling of laminated cross-ply oval cylindrical shells by Patel B.P., Shukla K.K., Nath Y., *Composite Structures*, 65(2), 217-229 (2004).

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Analytical solution for buckling and postbuckling of angle-ply laminated composite plates under thermomechanical loading by Shukla K.K. and Nath Y., *International Journal of Nonlinear Mechanics*, 36(7), 1097-1108 (2001).

Nonlinear transient analysis of moderately thick laminated composite plates by Nath Y. and Shukla K.K., *Journal of Sound and Vibration*, 247(3), 509-526 (2001).

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Postbuckling of cross-ply laminated rectangular plates under in-plane thermal loading by Nath Y. and Shukla K.K., *Int. J. Nonlinear Science and Engrg.*, 1, 1-16 (2001).

Nonlinear analysis of moderately thick laminated rectangular plates by Shukla K.K. and Nath Y., *J. Engineering Mechanics, ASCE*, 126(8), 831-838 (2000).