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PhD from IIT Kanpur
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Research Areas:

Aerospace and Smart Composite Structures
Uncertainty Quantification in Aircraft Analysis & Design
Multi-scale Modelling
FGM Plates and Shells
Adaptive Nonlinear FEM

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Publications: 2013 - 2014

New Non-polynomial Shear Deformation Theories for the Structural Behavior of Laminated Composite and Sandwich Plates by Grover Neeraj, Singh, B. N. and Maiti D. K., AIAA Journal, 51(8), 1861-71 (2013)

A new inverse hyperbolic zigzag theory for the static analysis of laminated composite and sandwich plates by Sahoo, Rosalin and Singh, B. N. Composite Structures, 105, 385-397 (2013)

A new shear deformation theory for the static analysis of laminated composite and sandwich plates by Sahoo, Rosalin and Singh, B. N. International Journal of Mechanical Sciences, 75, 324-33 (2013)

Large amplitude free vibration analysis of thermally post-buckled composite doubly curved panel embedded with SMA fibres by S. K. Panda and Singh, B. N. *Nonlinear Dynamics*, 74(1-2), 395-418 (2013)

Thermal Post-Buckling Behavior of Laminated Composite Spherical Shell Panel Using NFEM by S. K. Panda and Singh, B. N. *Journal of Mechanics Based Design of Structures and Machines*, 41(4), 468-488 (2013)

Buckling and post-buckling response of laminated composite plate with random system properties by Dash Padmanav and Singh B. N., *Mechanics of Advanced Materials and Structures*, DOI:10.1080/15376494 (2013)

Static Response of Geometrically Nonlinear Laminated Composite Plates having Uncertain Material Properties by Dash P and Singh B. N. *Mechanics of Advanced Materials and Structures*, DOI:10.1080/15376494 (2013)

For earlier publications by year see the website:

<http://www.iitkgp.ac.in/fac-profiles/showprofile.php?empcode=bVmbT>

Selected Even Earlier Publications:

Initial buckling of composite cylindrical panels with random material properties by Singh, B. N., Yadav D. and Iyengar, N. G. R. *Composite Structures*, 53(1) PP 55-64 (2001)

Effects of Random Material Properties on Buckling of Composite Plates by Singh, B. N., Iyengar, N. G. R. and Yadav, D. *ASCE J. of Engineering Mechanics*, 127(9) PP 873-879 (2001)

Free Vibration of laminated Spherical panels with random material properties by Singh, B. N., Yadav, D. and Iyengar, N. G. R. *J. of Sound and Vibration*, 244(2) PP 321-338 (2001)

Natural Frequencies of Composite Plates with Random Material Properties Using Higher Order shear deformation theory by Singh, B. N., Yadav, D. and Iyengar, N. G. R. *Int. J. of Mechanical Sciences*, 43(10) PP 2193-2214 (2001)

Stability analysis of laminated cylindrical panels with uncertain material properties by Singh, B. N., Yadav, D. and Iyengar, N. G. R. *J. of Composite Structures*, 54(1) PP 53-74 (2002)

A C0 finite element investigation for buckling analysis of composite plates with random material properties by Singh, B. N., Iyengar, N. G. R. and Yadav, D. *Int. J. of Structural Engineering and Mechanics*, 13(1) PP 53-74 (2002)

Free vibration of composite cylindrical panels with random material properties by Singh, B. N., Yadav, D. and Iyengar, N. G. R. *J. Composite Structures*, 58(2) PP 435-442 (2002)

Free Vibration Analysis of Laminated Cross-Ply Cylindrical Panels with Random Material Properties by Singh, B. N., Yadav, D. and Iyengar, N. G. R. *Advances in Vibration Engineering*, 1(3) PP 285-296 (2002)

A C0 Probabilistic finite element for buckling of composite spherical panels with random material properties by Singh, B. N., Iyengar, N. G. R. and Yadav, D. *ASCE J. of Aerospace Engineering*, 15(2) PP 46-54 (2002)

Free vibration of composite plates with uncertain material properties by Singh B. N., Yadav D. and Iyengar N. G. R. *Advanced Composite Materials*, 11(4) PP 331-350 (2003)