



Professor Y. Nath

See:

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

http://researchindex.net/author/Nath,_Y./5370013f26184448c5140ffb

Indian Institute of Technology, Delhi, India

Selected Publications:

Alwar, R. S., Nath, Y., Reddy, B. S.: Axisymmetric dynamic buckling of shallow spherical shells. ZAMM, 60, 118–120 (1980)

Nath, Y., Jain, R. K.: Non-linear dynamic analysis of orthotropic annular plates resting on elastic foundations. Earthquake Eng. Struct. Dyn. 11 (1983) 785–796

Nath, Y.; Jain, R. K.: Non-linear dynamic analysis of shallow spherical shells on elastic foundations. Int. J. Mech. Sci. 25 (1983) 409–419

P. C. Dumir, M. L. Gandhi and Y. Nath, “Axisymmetric static and dynamic buckling of orthotropic shallow spherical caps with flexible supports”, Acta Mechanica, Vol. 52, Nos. 1-2, 1984, pp. 93-106

Nath, Y., Dumir, P. C. and Bhatiaf, R. S., “Nonlinear static and dynamic analysis of circular plates and shallow spherical shells using the collocation method”, International Journal for Numerical Methods in Engineering, Vol. 21, No. 3, March 1985, pp. 565–578

R. K. Jain and Y. Nath, “Effect of foundation nonlinearity on the nonlinear transient response of orthotropic shallow spherical shells”, Ingenieur-Archiv, Vol. 56, No. 4, pp 295-300, July 1986

Y. Nath, O. Mahrenholtz and K.K. Varma, “Non-linear dynamic response of a doubly curved shallow shell on an elastic foundation”, Journal of Sound and Vibration, Vol. 112, No. 1, January 1987, pp. 53-61

Mahrenholtz, O., Nath, Y. and Varma, K. K., "Nonlinear Dynamic Response of Doubly Curved Shallow Shells on Nonlinear Elastic Subgrade," Z. Angew. Math. Mech., Vol. 64, No. 4, 1987

Y. Nath and K. Sandeep, “Effect of transverse shear on static and dynamic buckling of antisymmetrically laminated polar orthotropic shallow spherical shells”, Composite Structures, Vol. 40, No. 1, December 1997, pp. 67-72

K. Sandeep and Y. Nath, “Nonlinear Dynamic Response of Axisymmetric Thick Laminated Shallow Spherical Shells”, International Journal of Nonlinear Sciences and Numerical Simulation, Vol. 1, pp 225-238, 2000

Y. Nath, K. K. Shukla, 'Post-buckling of angle-ply laminated plates under thermal loading' Commun. Nonlinear.

Sci. Numer. Simul. 6 1 (2001): 1-16

B. P. Patel, K. K. Shukla and Y. Nath, "Thermal Buckling of Laminated Cross-Ply Oval Cylindrical Shells," Composite Structures, Vol. 65, No. 2, 2004, pp. 217-229

B. P. Patel, K. K. Shukla and Y. Nath, "Thermal postbuckling analysis of laminated cross-ply truncated circular conical shells," Composite Structures, vol. 71, no. 1, pp. 101-114, 10 2005

B. P. Patel, K. R. Shukla and Y. Nath, "Thermal postbuckling characteristics of laminated conical shells with temperature-dependent material properties," AIAA Journal, vol. 43, no. 6, pp. 1380-1388, 2005

Shukla, K.K., Nath, Y., Kreuzer, E., Sateesh Kumar, K.V., 2005. Buckling of laminated composite rectangular plates. Journal of Aerospace Engineering 18 (4), 215–223

B.P. Patel, S. Singh and Y. Nath, "Stability and nonlinear dynamic behaviour of cross-ply laminated heated cylindrical shells", Latin American Journal of Solids and Structures, 01/2006; 3:245-261

B. P. Patel, Y. Nath and K. K. Shukla, "Nonlinear thermo-elastic buckling characteristics of cross-ply laminated joined conical-cylindrical shells," International Journal of Solids and Structures, vol. 43, no. 16, pp. 4810-4829, 2006

B. P. Patel, K. K. Shukla and Y. Nath, "Nonlinear thermoelastic stability characteristics of cross-ply laminated oval cylindrical/conical shells," Finite Elements in Analysis and Design, vol. 42, no. 12, pp. 1061-1070, 08 2006

S. Singh, B. P. Patel and Y. Nath, "Postbuckling behavior of cross-ply laminated conical and joined conical-cylindrical shells subjected to thermo-mechanical loads," International Journal of Structural Stability and Dynamics, vol. 7, no. 3, pp. 543-553, 2007

B. P. Patel, Y. Nath and K. K. Shukla, "Thermo-Elastic Buckling Characteristics of Angle-Ply Laminated Elliptical Cylindrical Shells," Composite Structures, Vol. 77, No. 1, 2007, pp. 120-124

S. Singh, B. P. Patel, A. Sharma, K. K. Shukla, Y. Nath, "Nonlinear stability and dynamics of laminated composite plates and shells", Vibration Problems ICOVP 2005, Springer Proceedings in Physics, Vol. 111, pp 415-427, 2007

S. Singh, B. P. Patel and Y. Nath, "Postbuckling behavior of angle-ply laminated joined circular conical - cylindrical shells," AIAA Journal, vol. 45, no. 4, pp. 942-949, 2007.

B. P. Patel, S. Singh and Y. Nath, "Postbuckling characteristics of angle-ply laminated truncated circular conical shells," Communications in Nonlinear Science and Numerical Simulation, vol. 13, no. 7, pp. 1411-1430, 2008

S. Singh, B.P. Patel and Y. Nath, "Postbuckling of angle-ply laminated cylindrical shells with meridional curvature", Thin-Walled Structures, Vol. 47, No. 3, March 2009, pp. 359-364

S. Singh, B.P. Patel, Y. Nath, Postbuckling of laminated shells of revolution with meridional curvature under thermal and mechanical loads, International Journal of Structural Stability and Dynamics, 9, 1, 107–126, 2009

A.K. Gupta, P.B. Patel and Y. Nath, "Progressive damage of laminated cylindrical/conical panels under meridional compression", European Journal of Mechanics –A/Solids, Vol. 53, June 2015