



Professor Nitin Sharma

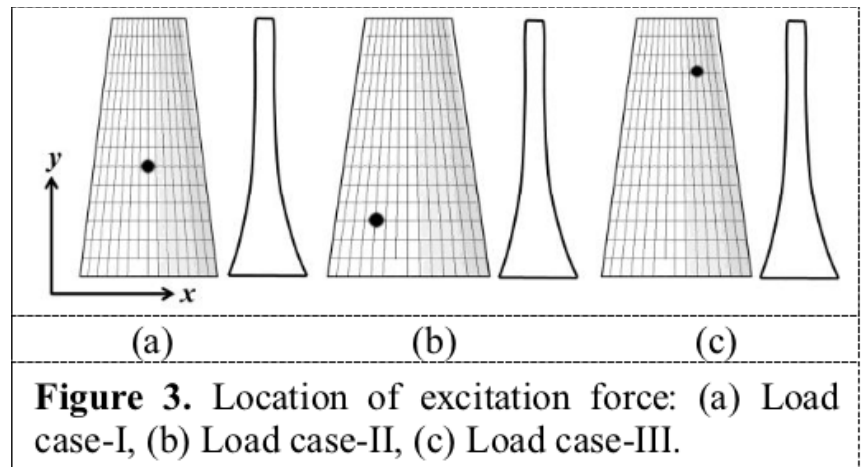


Figure 3. Location of excitation force: (a) Load case-I, (b) Load case-II, (c) Load case-III.

From: N. Sharma, T.R. Mahapatra and S.K. Panda, “Analysis of vibro-acoustic response of un-baffled laminated composite conical shell panel with varying thickness”, International Conference on Mechanical, Materials and Renewable Energy, IOP Conf. Series: Materials Science and Engineering, 377, 012139, 2018

See:

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Selected Publications:

- N. Sharma, T.R. Mahapatra, S.K. Panda, Vibro-acoustic analysis of un-baffled curved composite panels with experimental validation, *Struct Eng Mech*, 64 (2017), pp. 93-107
- Sharma, N., Mahapatra, T. R. and Panda, S. K. [2017] “Vibro-acoustic behaviour of shear deformable laminated composite flat panel using BEM and the higher order shear deformation theory” *Composite Structures* 180, 116–129.
- Sharma, N., Mahapatra, T. R. and Panda, S. K. [2017] “Numerical study of vibro-acoustic responses of un-baffled multi-layered composite structure under various end conditions and experimental validation,” *Latin American Journal of Solids and Structures* 14, 1547–1568.
- Nitin Sharma, Trupti Ranjan Mahapatra, Subrata Kumar Panda and Pruthwiraj Sahu, “Characterization of the Acoustic Radiation Properties of Laminated and Sandwich Composite Panels in Thermal Environment”, *NCPCM 2017*, IOP Conf. Series: Materials Science and Engineering, 338, 012031, 2018
- Sudhansu S. Patro, Dibakar Sutradhar, Ranjan K. Behera and Nitin Sharma, “Free vibration analysis of stiffened laminated composite plate in a thermal environment”, *The 3rd International Conference on Materials and Manufacturing Engineering 2018*, IOP Conf. Series: Materials Science and Engineering, 390, 012040, 2018
- Ranjan K. Behera, Kushagra Garg, Sudhansu S. Patro and Nitin Sharma, “Eigen-frequency analysis of spherical shell laminated composite plates with and without central cutouts using finite elements”, *The 3rd International Conference on Materials and Manufacturing Engineering 2018*, IOP Conf. Series: Materials Science and Engineering, 390, 012043, 2018
- Sharma, N., Mahapatra, T.R., Panda, S.K., Hirwani, C.K.: Acoustic radiation and frequency response of higher-order shear deformable multilayered composite doubly curved shell panel—an experimental validation. *Appl. Acoust.* 133, 38–51 (2018)
- Nitin Sharma, Trupti Ranjan Mahapatra and Subrata Kumar Panda, “Thermoacoustic behavior of laminated composite curved panels using higher-order finite-boundary element model”, *International Journal of Applied Mechanics*, Vol. 10, No. 2, 1850017, March 2018

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N. Sharma, T.R. Mahapatra and S.K. Panda, "Analysis of vibro-acoustic response of un-baffled laminated composite conical shell panel with varying thickness", *International Conference on Mechanical, Materials and Renewable Energy*, IOP Conf. Series: Materials Science and Engineering, 377, 012139, 2018

Dash, S., Sharma, N., Mahapatra, T., Panda, S. and Sahu, P. (2018), "Free vibration analysis of functionally graded sandwich flat panel", *Mater. Sci. Eng.*, 377(1).

Sushmita Dash, Kulmani Mehar, Nitin Sharma, Trupti R. Mahapatra and Subrata K. Panda, "Modal analysis of FG sandwich doubly curved shell structure", *Structural Engineering and Mechanics* Volume 68, Number 6, December 25 2018, pages 721-733

Sharma, N., Mahapatra, T.R., Panda, S.K.: Numerical analysis of acoustic radiation properties of laminated composite flat panel in thermal environment: a higher-order finite-boundary element approach. *Proc. Inst. Mech. Eng. Part C J. Mech. Eng. Sci.* 232, 3235–3249 (2018)

Nitin Sharma, Trupti Ranjan Mahapatra and Subrata Kumar Panda, "Vibroacoustic analysis of thermo-elastic laminated composite sandwich curved panel: a higher-order FEM-BEM approach", *International Journal of Mechanics and Materials in Design*, Vol. 15, No. 2, pp 271-289, June 2019

Nitin Sharma, Trupti Ranjan Mahapatra, Subrata Kumar Panda, "Hygrothermal effect on vibroacoustic behaviour of higher-order sandwich panel structure with laminated composite face sheets", *Engineering Structures*, Vol. 197, Article 109355, 15 October 2019