

List of Publications:

SCI Journals

- 1) Baij Nath Singh, Vinayak Ranjan and R.N. Hota, Vibroacoustic response of thin power law indexed functionally graded plates, **Steel and Composite Structures**, Vol. 50, No. 3, 2024, pages 299-318.
- 2) Baij Nath Singh, Vinayak Ranjan, and R. N. Hota “Vibroacoustic response of mode localized thin functionally graded plates using physical neutral surface.” **Composite Structures**, 287 (2022), 115301.
- 3) A. Tripathi, N. K. Jha, and R. N. Hota, “A Generalized Compliance Model for Study of Acoustic Damping Behavior of Mixed Porosity Segmented Perforated Liner,” **Applied Acoustics.**, vol. 183, 108302, 2021.
- 4) U. Chhibber and R. N. Hota, “Effect of mean flow on shape correction factor and acoustic properties of a compact acoustic filter,” **Applied Acoustics**, vol. 165, p. 107314, 2020.
- 5) N. K. Jha, D. Das, A. Tripathi, and R. N. Hota, “Acoustic damping : Analytical prediction with experimental validation of mixed porosity liners and analytical investigation of conical liners,” **Applied Acoustics.**, vol. 150, pp. 179–189, 2019.
- 6) U. Chhibber, R. Kumar, S. Haldar, and R. N. Hota, “Design and analysis of a compact acoustic filter for broadband noise absorption,” **Applied Acoustics**, vol. 140, no. February, pp. 30–38, 2018.
- 7) Baij Nath Singh, R. N. Hota, Sarvagya Dwivedi, Ratneshwar Jha, Vinayak Ranjan “Acoustic response of sigmoid functionally graded thin plates - a parametric investigation”, **Journal of Vibration Engineering and Technologies**, 10, 2509–2529 (2022).
- 8) Baij Nath Singh, Vinayak Ranjan, R. N. Hota. “Vibroacoustic response from thin exponential functionally graded plates.” **Archives of Applied Mechanics**, 92, pages 2095–2118 (2022).
- 9) Baij Nath Singh, R. N. Hota, Sarvagya Dwivedi, Ratneshwar Jha, Vinayak Ranjan, and Kamil Řehák. (2022). "Analytical Investigation of Sound Radiation from Functionally Graded Thin Plates Based on Elemental Radiator Approach and Physical Neutral Surface" **Applied Sciences**, 12, no. 15: 7707. (2022).
- 10) Ashutosh Tripathi, N. K. Jha, R. N. Hota, Parametric Acoustic Characterization of Perforated Liners Backed by Cavity of Uniform and Varying Cross-sections. **Journal of Vibration Engineering and Technology**, Vol. 12, pp. 1659–1672 (2024).
- 11) A. Tripathi, N. K. Jha, R. N. Hota, Ajay Kumar, Rashi Tyagi, Green sound absorbing material prepared by using natural fiber for building acoustics, Special issue: Adoptable materials for the sustainability of multifunctional structure, **Proceedings of the Institution of Mechanical Engineers Part E-Journal of Process Mechanical Engineering**, 2024. Q2
- 12) R. N. Hota and M. L. Munjal, “Aero-acoustic Source Characteristics of a Compression Ignition Engine: Empirical Expressions Obtained by Means of a Numerical Multi-Load Method”, **International Journal of Aeroacoustics**, 7 (2), 2008.
- 13) R. N. Hota and M. L. Munjal, “Intake Source Characterization of a Compression Ignition Engine: Empirical Expressions”, **Noise Control Engineering Journal**, 55(2), 2008.
- 14) R. N. Hota and M. L. Munjal, “A New Hybrid Approach for Thermo-Acoustic Modeling of Engine Exhaust System”, **International Journal of Acoustics and Vibration**, 9(3), 129-138, 2004.
- 15) N. K. Jha, Vikram, N. K. Sah, R. N. Hota, Acoustic Attenuation by Conical Cavity Backed Conical Liners with Simultaneous Bias-Grazing Flow, **Sadhana Q2 (Accepted)**
- 16) Adil Kureshee, N. K. Jha Vikram Singh, R. N. Hota, S. Narayanan, Deepak Kumar Mandal Effect of single and multiple acoustic frequencies on the atomization of a spray, **Physics of Fluids**, December 2024; 36 (12): 122102.

Non-SCI Journals

- 1) Sunali, U. Chhibber, R.N. Hota, “Effect of variation of extended length on end Correction in Extended Tube Resonators,” International Journal of Pure and Applied Maths, Volume 119 No. 10 2018, 1957- 1966, (2017).
- 2) N. K. Jha, Swapna Singh, R. N. Hota, A Simplified Two Load Transfer Matrix Approach for the Characterization of Acoustic Elements with and Without Mean Flow, **Journal of Acoustical Society of India**, vol. 46, No. 3-4, 2019, pp 98-112.
- 3) N. K. Jha, Rahul Kumar Singh, R. N. Hota, D. K. Mandal, S. Narayanan, Acoustic characteristics of premixed flames in a combustor, **Applied Innovative Research**, ISSN 2581-8198, Vol. 4, pp. 1-7, Issue 2 - 4, 2023.
- 4) Amarjeet Gupta, Vikram, N. K. Jha, R. N. Hota, An Experimental Study into Orifice Interaction Effects on Perforated Plates with Bias Flow, **Applied Innovative Research**, ISSN 2581-8198, Vol. 4, pp. 15-19, Issue 2 - 4, 2023.
- 5) Baij Nath Singh, Vinayak Ranjan and R. N. Hota. “Vibration Mode Localization of Aluminum Rectangular Plates.”. **International Journal of Advanced Research & Engineering**. 6(2), 2019.
- 6) R. N. Hota and M. L. Munjal, “Computation of the Exhaust and Intake Noise of an Automotive Engine With or Without a Muffler Using Hybrid Approach and the Two-Load Method”, **Journal of Acoustical Society of India**.