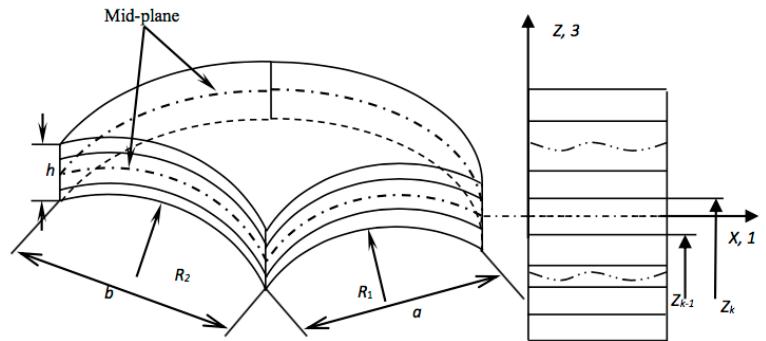




**Professor Trupti Ranjan Mahapatra**



**Figure 1.** Lay-up of laminated composite spherical shell.

From: Mahapatra, T. R. and Panda, S. K., (2015), Effects of hydrothermal conditions on free vibration behaviour of laminated composite structures, NCPCM 2014 December 5th-6th, National Institute of Technology Rourkeal, Published in: IOP Conference Series: Materials Science and Engineering, Vol. 75 pp. 012016

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<http://www.vssut.ac.in/faculty-profile.php?furl=trupti-ranjan-mahapatra>

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**Biography** (from: <http://www.cosmicjournalsgroup.com/dr-trupti-ranjan-mahapatra/>):

Dr. Trupti Ranjan Mahapatra is a graduate in Mechanical Engineering from University College of Engineering, Burla (Presently VSSTU), Odisha, India and M. Tech in Manufacturing Processes and Systems from KIIT University. He completed PhD in Computational Structural Mechanics in 2015 with Thesis titled “Nonlinear free vibration and flexural analysis of laminated composite curved panel under hydrothermal environment”. He has been working as a faculty in School of Mechanical Engineering, KIIT University, Bhubaneswar, Odisha since October 2003 with current designation as Associate Professor, where in addition to teaching, research and administrative jobs he is also actively involved in organizing seminars, conferences and other academic and non-academic events. He is also working as an Assistant Coordinator and Counsellor in IGNOU Study Centre, KIIT University, Bhubaneswar, Odisha, India where he has supervised 9 Undergraduate theses.

His current research interest includes: Laminated composite structures/Curved structures, Smart (SMA, PZT and Magnetostrictive material) Composite Structures, Nonlinear FEM, Numerical/Experimental nonlinear mechanical responses, Functionally Graded Material (FGM), FG-CNT, Vibro-acoustic Analysis of Laminated/Smart Structures. He has to his credit 26 numbers of International Journal papers in the field of Mechanical Engineering in which 23 are SCI and SCOPUS indexed. He has also presented oral papers in 9 International Conferences with ACUN6-2012 at Monash University, Melbourne, Australia and AETM 2015 at Bangkok, Thailand, to name a few. He has reviewed few articles in journals of good repute namely Engineering Science and Technology, an International Journal; Structural Engineering and Mechanics; Proceedings of the IMechE, Part E: Journal of Process Mechanical Engineering; Alexandria Engineering Journal; International Journal of Energy Research etc. In addition to The Institute of Engineers (India), he also bears membership of Indian Science Congress Association (ASCA), Indian Society for Technical Education (ISTE), International Association of Engineers (IAENG), South Asia Institute of Science and Engineering (SAISE), Universal Association of Mechanical and Aeronautical Engineers (UAMAE), The American Institute of Aeronautics and Astronautics (AIAA) etc.

He received the “IEI Young Engineers Award 2016-2017” in Mechanical Engineering discipline at the 32nd National Convention of Mechanical Engineers held at Ranchi, India on December 10, 2016; the Institution Award, at 57th Annual Technical Session of the Institute of Engineers (IE) India, Odisha state centre, Awards for excellence in HVAC&R at 8th Bry-Air, Mumbai, India and Best Paper awards for his technical paper presentation in National and International conferences. He has supervised 8 Master’s Thesis and currently supervising 3 PhD scholars with tentative title as: Numerical and Experimental Investigation on the Vibro-Acoustic Behavior of Laminated Composite Structures, Nonlinear vibration and post buckling behaviour of SMA embedded laminated composite shell panel under hygro-thermoelastic load and Development and Mechanical Characterization of Bio-composites with ceramic fillers.

### **Selected Publications:**

1. Dash, S., Mehar, K., Sharma, N., Mahapatra, T. R., and Panda, S. K. (2018) “Modal Analysis of FG Sandwich Doubly Curved Shell Structure”, *Structural Engineering and Mechanics*, 68(6):721-733, December 2018
2. Sharma, N., Mahapatra, T. R. and Panda, S. K., (2018) Vibroacoustic analysis of thermo-elastic laminated composite sandwich curved panel: A higher-order FEM-BEM approach, *International Journal of Mechanics and Materials in Design* (2018). <https://doi.org/10.1007/s10999-018-9426-5>
3. Mehar, K., Mahapatra, T. R., Panda, S. K., Katariya, P. V., and Tompe, U. K (2018) Finite-Element Solution to Nonlocal Elasticity and Scale Effect on Frequency Behavior of Shear Deformable Nanoplate Structure, *Journal of Engineering Mechanics*, ASCE, Vol. 144(9), pp. 04018094, DOI: 10.1061/(ASCE)EM.1943-7889.0001519 (IF: 1.80) SCI
4. Sharma, N., Mahapatra, T. R. and Panda, S. K., (2018) Numerical analysis of acoustic radiation responses of shear deformable laminated composite shell panel in hygrothermal environment, *Journal of Sound and Vibration*, Vol. 431, pp. 346-366, DOI: 10.1016/j.jsv.2018.06.007, (IF: 3.20) SCI.
5. Singh, V. K., Hirwani, C. K., Panda, S. K., Mahapatra, T. R. and Mehar, K., (2018) Numerical and Experimental Nonlinear Dynamic Response Reduction of Smart Composite Curved Structure using Collocation and Non-collocation Configuration, *IMechE Part C: Journal of Mechanical Engineering Science*, <https://doi.org/10.1177/0954406218774362>
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8. Mehar, K., Panda, S. K., Mahapatra, T. R., (2018), Nonlinear Frequency Responses Of Functionally Graded Carbon Nanotube-Reinforced Sandwich Curved Panel Under Uniform Temperature Field, International Journal of Applied Mechanics, Vol. 10(3), pp. 1850028, DOI: 10.1142/S175882511850028X (IF: 1.954). SCIE and SCOPUS

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11. Hirwani, C. K., Panda, S. K., Mahapatra, T. R. (2018), Thermomechanical Deflection and Stress Responses of Delaminated Shallow Shell Structure using Higher-Order Theories, Composite Structures, Vol. 184, pp. 135-145, DOI: 10.1016/j.compstruct.2017.09.071 (IF: 3.858). SCI and SCOPUS

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