

Professor Shishir Kumar Sahu

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Current and Recently Competed Research:

Parametric instability of woven fiber composite panels

Nonlinear dynamic analysis of smart composite structures with discrete delamination Vibration of cracked beams

Parametric resonance characteristics of laminated composite twisted cantilever panels

Areas of Interest:

Structural Dynamics, Composite Structures, Finite Element Method, Vibration and Stability of Plates and Shells, Modal analysis of structures, Fracture Mechanics.

Selected Publications:

1. Sahu, S. K. and Asha, A.V., Parametric resonance characteristics of angle-ply twisted curved panels,

International Journal of Structural Stability and Dynamics, 2008, 8, 61-76.

- 2. **Sahu, S. K. and Datta, P. K**, Research Advances in the Dynamic Stability Behaviour of Plates and Shells: 1987-2005, *Applied Mechanics Reviews*, *ASME*, 2007, **60**, 65-75...
- 3. **Sahu, S.K, Das B. and Ray**, **B.C.**, Effects of loading speed on the failure Behaviour of FRP composites, International Journal *of Aircraft Engineering and Aerospace Technology*, 2007, **79** (1), 45-62.
- 4. Sahu, S. K, Behera R. K. and Parhi, D.R.K. Vibration analysis of a cracked rotor surrounded by viscous liquid, *Journal of Vibration and Control*, 12, 2006, 465-494.
- 5. Sahu, S.K, Behera R. K. and Parhi, D.R.K. Dynamic Characteristics of Cantilever Beam with transverse Cracks, *International Journal of Acoustics and Vibration*, 2006, **11** (1), 3-18.
- 6. **Sahu, S. K., Asha A.V.** and **Mishra, R.N**. Stability of laminated composite pre-twisted cantilever panels, *Journal of Reinforced Plastics and Composites*, 2005, **24**, (12), 27-34.
- 7. Sahu, S. K, Behera R. K. and Parhi, D.R.K. Vibration analysis of Cracked Beam subjected to moving mass, *International Journal of Acoustics and Vibration*, 2005, **10**, (4), 197-201.
- 8. Sahu, S. K. and Datta, P.K. Dynamic stability of laminated composite curved panels with cutouts, *Journal of Engineering Mechanics*, ASCE, 2003, 129, 1245-1253.
- 9. **Sahu, S. K.** and **Datta, P.K**, Parametric instability characteristics of laminated composite curved panel subjected to concentrated in-plane edge loading, *Journal of Advances in Vibration Engineering*, 2003, **2**, 142-150.
- 10. **Sahu, S. K.** and **Datta, P.K**. Dynamic stability of curved panels with cutouts, *Journal of Sound and Vibration*, 2002, **251**, 683-696.
- 11. **Sahu, S. K.** and **Datta, P.K**. Parametric resonance characteristics of laminated composite curved shells subjected to non-uniform loading, *Journal of Reinforced Plastics and Composites*, 2001, **20**, 1556-1576.
- 12. **Sahu, S. K.** and **Datta, P.K**. Parametric instability of doubly curved panels subjected to non-uniform harmonic loading, *Journal of Sound and Vibration*, 2001, **240**, 117-129.
- 13. **Sahu, S. K.** and **Datta, P.K**. Dynamic instability of laminated composite rectangular plates subjected to non- uniform harmonic in-plane edge loading, *Journal of Aerospace Engineering*, *Proceedings of Institution of Mechanical Engineers*, UK, Part G, 2000, **214**, 295-312.
- 14. **Sahu, S. K. and Datta, P.K**, Vibration of doubly curved panels with cutouts, *Journal of Institution of Engineers*, Aerospace Division, 2002, **83**, 25-28.
- 15. Sahu, S. K., Datta, P.K and Pravakara, D. L. Vibration and buckling of laminated composite rectangular plates subjected to partial edge loading, *Journal of Structural Engineering*, 2001, **28**, 75-80.
- 16. **Sahu, S. K. and Datta, P.K**, Parametric instability characteristics of laminated composite curved panels, *Journal of Institution of Engineers*, Aerospace Division, 2000, **81**, 20- 24.