



. Laminate geometry with multiple delaminations.

## Professor Sriman Kumar Bhattacharyya

**The right-most image is from:** Parhi, P. K., Bhattacharyya, S. K. and Sinha, P. K. 2001. Failure Analysis of Multiple Delaminated Composite Plates Due to Bending and Impact. Bull. Mater. Sci., 24(2): 143–149.

See:

<http://www.iitkgp.ac.in/departement/CE/faculty/ce-bsri>

[https://scholar.google.com/citations?user=dw\\_dteoAAAAJ&hl=en](https://scholar.google.com/citations?user=dw_dteoAAAAJ&hl=en)

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### Selected Publications:

#### Book:

Kishor Chandra Panda, Sudhirkumar V. Barai and Sriman Kumar Bhattacharyya, Shear Strengthening of T-Beam with GFRP, Springer, 2018, 128 pages

#### Journal Articles, etc.:

A. D. Gupta, F. H. Gregory, R. L. Bitting and S. Bhattacharyya, Dynamic response of an explosively loaded hinged rectangular plate, Computers and Structures 26 (1987) 339-344

Babu, S. S. and Bhattacharyya, S. K. [1996] “ Finite element analysis of fluid-structure interaction effect on liquid retaining structures due to sloshing,” Computers & Structures 59(6), 1165–1171.

N. C. Pal, S. K. Bhattacharyya, and P. K. Sinha, “Experimental investigation of slosh dynamics of liquid-filled containers,” Experimental Mechanics, vol. 41, no. 1, pp. 63–69, 2001.

Parhi, P. K., Bhattacharyya, S. K. and Sinha, P. K. 2001. Failure Analysis of Multiple Delaminated Composite Plates Due to Bending and Impact. Bull. Mater. Sci., 24(2): 143–149.

Parhi, P.K. Bhattacharyya, S.K and Sinha, P.K. (2001): Hygrothermal effect on the dynamic behaviour of multiple delaminated composite plates and shells, Journal of Sound and Vibration, Vol.248 (2), pp.195-214.

P. K. Parhi, P. K. Sinha, S. K. Bhattacharyya, “Dynamic Behavior and Impact Induced First Ply Failure of Multiple Delaminated Composite Shells”, Journal of Reinforced Plastics and Composites, September 2001, vol. 20, nos. 14-15, pp. 1276-1300

Maity, D. and Bhattacharyya, S. K. [2003] “ A parametric study on fluid-structure interaction problems,” Journal of Sound and Vibration 263(4), 917–935.

Biswal, K.C., Bhattacharyya, S.K. and Sinha, P.K. (2004), "Dynamic response analysis of a fluid-filled

cylindrical tank with annular baffle", *J. Sound Vib.*, 274, 13-37.

P. Pal and S.K. Bhattacharya, "Progressive failure analysis of cross-ply laminated composite plates by finite element method", *Journal of Reinforced Plastics and Composites*, Vol. 26, No. 5, 2007

S. Bhattacharya, S. Adhikari and N. A. Alexander, "A simplified method for unified buckling and free vibration analysis of pile-supported structures in seismically liquefiable soils", *Soil Dyn. Earthq. Eng.* 29 (8) (2009) 1220–1235

S. R. Dash, S. Bhattacharya and A. Blakeborough, "Bending-buckling interaction as a failure mechanism of piles in liquefiable soils", *Soil Dyn. Earthq. Eng.* 30 (1–2) (2010) 32–39.

Biswal, K.C. and Bhattacharyya, S.K. (2010), "Dynamic response of structure coupled with liquid sloshing in a laminated composite cylindrical tank with baffle", *Finite Elem. Anal. Des.*, 46, 966-981.

P. Pal and S. K. Bhattacharyya, "Sloshing in partially filled liquid containers—numerical and experimental study for 2-D problems," *Journal of Sound and Vibration*, vol. 329, no. 21, pp. 4466–4485, 2010.

A. Pain, D. Choudhury and S.K. Bhattacharya, "Seismic stability of retaining wall-soil sliding interaction using modified pseudo-dynamic method", *Geotechnique Letters*, Vol. 5, pp 56-61, 2015

S.K. Panigrahi, A. Deb and S.K. Bhattacharya, "Effect of laminate stiffness on failure mode in FRP wrapped T beams", *International Journal of Research in Engineering and Technology*, Vol. 4, No. 13, December 2015

Arany L, Bhattacharya S, Macdonald J, Hogan SJ (2015) Simplified critical mudline bending moment spectra of offshore wind turbine support structures. *Wind Energy* 18:2171–2197

Adhikaria, S. and Bhattachary, S. (2017), "Dynamic analysis of wind turbine towers on flexible foundations", *Shock. Vib.*, 19, 37-56.