

Publications

Archival Journals and Proceedings:

1. Samanta, A. and Banerji, P. (2009). "Structural vibration control using modified tuned liquid dampers". *Structural Stability and Dynamics* (communicated).
2. Banerji, P., Samanta, A. and Chavan, S. (2009). "Earthquake vibration control using tuned liquid dampers". *Earthquake Engineering and Engineering Vibration* (under review).
3. Banerji, P., and Chikermane, S. (2009). "Structural health monitoring of a steel railway bridge for increased axle loads". *Structural Engineering International* (communicated).
4. Banerji, P., and Nayak, S. (2008). "Three-dimensional guided wave scattering in layered plates", *Reinforced Plastics and Composites* (tentatively accepted).
5. Banerji, P., and Bage, A.A. (2008). "Flaw detection in metallic plates using artificial neural nets". *Nondestructive Evaluation* (communicated).
6. Murudi, M.M., and Banerji, P. (2006). "Multiple tuned liquid dampers for earthquake vibration control". *Advances in Vibration Engineering*, **5**: 241-252.
7. Bage, A.A., and Banerji, P. (2005). "Neural Networks for delamination flaw detection in FRP laminated composite plates". *Proceedings of SPIE*, **5768**: 369-377.
8. Banerji, P., Nayak, S., and Shah, A.H. (2005). "Three-dimensional guided waves in laminated composite plates excited from point source". *Proceedings of SPIE*, **5768**: 334-343.
9. Nayak, S., and Banerji, P. (2004). "Elastic wave propagation in laminated FRP plates". *Proceedings of SPIE*, **5394**: 139-147.
10. Banerjee, S., Banerji, P., Berning, F., and Eberle, K. (2003). "Lamb wave propagation and scattering in layered composite plates", *Proceedings of SPIE*, **5047**: 13-24.
11. Banerji, P., Murudi, M.M., Shah, A.H., and Popplewell, N. (2000). "Tuned liquid dampers for controlling earthquake response of structures". *Earthquake Engineering Structural Dynamics*, **29**: 587-602.
12. Jangid, R.S., and Banerji, P. (1998). "Effects of isolation damping on stochastic response of structures with non-linear base isolators". *Earthquake Spectra*, **14**: 95-114.
13. Banerji, P., and Ghosh, A. (1995). "Aboveground pipeline response to random ground motion". *Lifeline Earthquake Engineering, ASCE*, **6**: 272-279.
14. Banerji, P. (1994). "Earthquake ground-motion characterisation for large structures", *Current Science*, **67**: 386-394.
15. Banerji, P. (1992). "Earthquake hazards for cross-country pipelines", *Bulletin of Material Science*, **15**: 47-54.

Conference Proceedings:

16. Banerji, P. and Chikermane, S. (2009). "Structural parameter estimation of two bridges from site data using Kalman filters and stochastic subspace algorithm". *Proceedings of IV ECCOMAS Thematic Conference on Smart Structures and Materials (SMART09)*, Porto, Portugal.
17. Bhattacharyya, P. and Banerji, P. (2009). "Improved damage classification and detection on a model bridge using Fuzzy Neural Networks". *Proceedings of 4th International Conference on Structural Health Monitoring on Intelligent Infrastructure (SHMII-4)*, Zurich, Switzerland.
18. Banerji, P. and Chikermane, S. (2009). "System identification and parameter estimation of two bridges from site data using an Eigen Value Realization Algorithm". *Proceedings of 4th International Conference on Structural Health Monitoring on Intelligent Infrastructure (SHMII-4)*, Zurich, Switzerland.
19. Samanta, A., and Banerji, P. (2008). "Structural control using modified tuned liquid dampers". *Proceedings of 14th World Conference on Earthquake Engineering (14WCEE)*, Beijing, China.
20. Banerji, P., and Barve, M. (2008). "Effect of uncertainties in structural parameters on earthquake response of torsionally-coupled buildings". *Proceedings of 14th World Conference on Earthquake Engineering (14WCEE)*, Beijing, China.
21. Banerji, P. (2007). "Structural health monitoring of steel bridges". *Proceedings of International Conference on Civil Engineering in the New Millennium: Opportunities and Challenges (CENeM-2007)*, Shibpur, India.
22. Samanta, A., and Banerji, P. (2006). "Efficient numerical schemes to analyse earthquake response of structures with tuned liquid dampers". *Proceedings of 13th Symposium on Earthquake Engineering (13SEE)*, Roorkee, India.
23. Nayak, S., and Banerji, P. (2005). "Three Dimensional Hybrid Model for Analysis of Wave Scattering in Infinite Plates". *Proceedings of 2nd International Conference on Structural Health monitoring of Intelligent Infrastructure (SHMII-2)*, Shenzhen, China.
24. Banerji, P., and Misra, A. (2005). "Globalisation and engineering education: an Indian perspective". *ASEE/AaeE 4th Global Colloquium on Engineering Education*, Sydney, Australia.
25. Banerji, P. (2004). "Tuned liquid dampers for control of earthquake response". *Proceedings of 13th World Conference on Earthquake Engineering (13WCEE)*, Vancouver, Canada: 1666.
26. Nayak, S., and Banerji, P. (2004). "Scattering of guided waves in laminated composite plates". *Proceedings of International Congress on Computational mechanics and Simulation, ICCMS-04*, Kanpur, India, Volume II: 419-426
27. Bage, A., and Banerji, P. (2004). "Damage detection in laminated composite plates using counter propagation networks". *Proceedings of International Congress on Computational mechanics and Simulation, ICCMS-04*, Kanpur, India, Volume II: 483-490.
28. Nayak, S., and Banerji, P. (2004). "Scattering of guided waves by vertical cracks in laminated composite plates". *Proceedings of International Conference on Advances in Structural Integrity and National Seminar on Aerospace Structures*, Bangalore, India: SH-C84.
29. Bage, A., and Banerji, P. (2004). "Damage Detection in Isotropic Plates using ANN". *Proceedings of International Conference on Advances in Structural Integrity and National Seminar on Aerospace Structures*, Bangalore, India: SH-C85.

30. Nayak, S., and Banerji, P. (2004). "Two dimensional wave propagation in sandwich composite plate with functionally graded core". *Proceedings of International Conference on Theoretical, Applied, Computational and Experimental Mechanics, ICTAM-2004*, Kharagpur, India.
31. Naik, A., and Banerji, P. (2004). "Free Vibration Analysis of Layered Beams Using a Complete Layer-wise Theory". *Proceedings of International Conference on Theoretical, Applied, Computational and Experimental Mechanics, ICTAM-2004*, Kharagpur, India.
32. Banerji, P., Nayak, S., and Bage A. (2004). "Damage Detection in Structures using ANN". *Proceedings of Joint Indo-US Workshop on Advance Sensing Systems and Smart Structures Technology*, Bombay, India.
33. Shinde, S., and Banerji, P. (2002). "Analysis of Tension Leg Platforms under the action of current and regular wave forces". *Proceedings of HYDRO-2002I*, Bombay, India.
34. Chavan, S., Murudi, M.M., and Banerji, P. (2002). "Effect of vertical acceleration on performance of TLDs as a seismic control device". *Proceedings of 12th Symposium on Earthquake Engineering (12SEE)*, Roorkee, India.
35. Pandya, B., Porwal, P., and Banerji, P. (2002). "Application of artificial neural networks in development of site-specific response spectra". *Proceedings of 12th Symposium on Earthquake Engineering (12SEE)*, Roorkee, India.
36. Sarada, S., Chavan, S., and Banerji, P. (2002). "Experimental studies on TLD-structure interaction for large amplitude base motions". *Proceedings of 12th Symposium on Earthquake Engineering (12SEE)*, Roorkee, India.
37. Ghosh, R., and Banerji, P. (2001). "Study of collapse earthquake for reinforced concrete ductile frames". *Proceedings of 8th International Conference on Structural Safety and Reliability (ICOSSAR-01)*, Newport Beach, USA.
38. Murudi, M.M., and Banerji, P. (1999). "Tuned liquid dampers for controlling vibrations of cantilever structures". *Proceedings of 3rd International Conference on Shock and Impact Loading on Structures*, Singapore.
39. Murudi, M.M., and Banerji, P. (1999). "Tuned liquid dampers for controlling response of structures". *Proceedings of 4th International Conference on Vibration Problems (ICOVP-99)*, Calcutta, India.
40. Zhang, C., Popplewell, N., Banerji, P., and Shah, A.H. (1999). "Wind-induced galloping of traffic poles". *Proceedings of 7th International Conference on Recent Advances in Structural Dynamics*, Southampton, U.K: 231-244.
41. Murudi, M.M., Banerji, P., and Shah, A.H. (1999). "Base-excitation induced response control using multiple tuned liquid dampers. *Proceedings of Canadian Conference on Applied Mechanics (CANCAM- 99)*, Hamilton, Canada: 97-98.
42. Murudi, M.M., and Banerji, P. (1998). "Seismic behaviour of structures with tuned liquid dampers". *Proceedings of 11th Symposium on Earthquake Engineering (11SEE)*, Roorkee, India: 729-736.
43. Banerji, P., and Datta, T.K. (1997). "Integrity monitoring of offshore platforms using artificial neural nets". *Proceeding of the 7th International. Offshore and Polar Engineering Conference (ISOPE-97)*, Honolulu, USA, Vol. 4: 439-444.
44. Banerji, P. (1997). "Importance of spatial variation modelling in earthquake analysis of structures". *Proceedings of 1st Structural Engineering Convention (SEC-97)*, Madras, India.

45. Banerji, P. (1996). "Application of innovative strategies in natural hazards mitigation". *Proceedings of International Seminar on Natural Disaster Mitigation*, Shantiniketan, India.
46. Jangid, R.S., and Banerji, P. (1995). "Seismic response of bridges with nonlinear supports". *Proceedings of 2nd International Conference on Seismology and Earthquake Engineering*, Tehran, Iran: 556-568.
47. Variar, G.P., and Banerji, P. (1994). "Elongated building response to spatially varying earthquake excitation". *Proceedings of 5th International Conference on Seismic Zonation*, Nice, France.
48. Karamchandani, A., Banerji, P., and Kamal, R. (1993). "Use of conditional expectation approaches for systems problems with multiple important failure modes", *Proceedings of 6th International Conference on Structural Safety and Reliability (ICOSSAR-93)*, Innsbruck, Austria.
49. Banerji, P., and Ghosh, A. (1992). "Earthquake response analysis of above-ground pipelines". *Proceedings of 10th World Conference on Earthquake Engineering*, Madrid, Spain, Balkema: 5459-5464.
50. Banerji, P., and El-Khoriby, S.R. (1991). "Effect of soil-structure interaction on seismic response of coupled shear walls". *Proceedings of 9th Symposium on Earthquake Engineering*, Roorkee, India: 609-617.
51. Banerji, P., and El-Khoriby, S.R. (1990). "Free vibration of coupled shear walls including dynamic foundation-structure interaction". *Proceedings of National Seminar on Earthquake Resistant Structures*, New Delhi, India.