

PAPERS PUBLISHED DURING 2004-05

During the year, the following research papers were published in several Indian and foreign Journals / Proceedings of Conferences/ Symposia:

- [1] Amar Prakash, C.K.Madheswaran, K. Natarajan and N.Lakshmanan, "Push out tests on stud connectors for use in composite bridge deck construction", Proc. of the National Conference on "Recent trends in composite construction using structural steel" Kongu Engineering College, Tamilnadu, December 16 -17 2004, pp.9-18.**
- [2] Amar Prakash, K. Natarajan and N.Anandavalli, "Utility of High Strength Concrete in Composite Bridge Deck Construction", Proc. of Intl. Conf. On Advances in Concrete Composites and Structures (ICACS), Jan 6-8, 2005, SERC, Chennai, pp. 197-206.**
- [3] Anandavalli, N., and Natarajan, K., "Response of a Cubicle Structure Subjected to Internal Blast Pressure", Proc. of the Intl. Conf. On Advances in Concrete Composites and Structures (ICACS), Jan 6-8, 2005, SERC, Chennai, pp. 701-710.**
- [4] Annie Peter J., Lakshmanan, N., Devadas Manoharan P., Rajamane, N.P., and Gopalakrishnan, S., 'Flexural behaviour of Reinforced Concrete beams using self-compacting concrete, The Indian Concrete Journal, Vol. 78, No.6, June 2004, pp. 66-72.**
- [5] Annie Peter, J., and Gopalakrishnan, S., 'Utilities on fly ash in concrete- An overview of R&D at SERC', Proc. of the Symposium on fly ash for bricks and other building materials, Mettur Thermal Power Station, June, 2004, pp. 46-54.**
- [6] Annie Peter, J., Lakshmanan, N., Devadas Manoharan, P., and Gopalakrishnan, S., "Evaluation of Technical Feasibility of Self Compacting Concretes in the Construction of Horizontal and Vertical Structural Members", Proc. of the International Conference on Advances in Concrete Composites and Structures, ICACS -2005, SERC, Chennai, pp 431-440.**

- [7] Annie Peter, J., Rajamane, N. P., and Gopalakrishnan, S., "Structural grade concretes using sintered fly ash aggregates", Proc. of the International Conference on Advances in Concrete Composites and Structures, ICACS-2005, SERC, Chennai, pp 177-188
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- [9] Annie Peter, J., Rajamane, N. P., Ambily P.S "Corrosion Resistance of lightweight concrete using fly ash based coarse aggregates", Rehab Technology Summit on Inspection, Assessment ,Condition survey, Repair and rehabilitation, Retrofitting and Protection of concrete Bridges and Buildings, March 2005, Hyderabad ,pp14-20.
- [10] Anoop, M.B., Balaji Rao, K., and Gopalakrishnan, S., "A Methodology for Generating Acceleration Response Spectrum using Fuzzy-Random Models of Earthquake Ground Motions", Proc. of the International Workshop on 'Risk Assessment in Site Characterization and Geotechnical Design', held at Indian Institute of Science, Bangalore, November 26-27 2004, pp 215-222.
- [11] Anoop, M.B., Balaji Rao, K., Shilpa, K. and Gopalakrishnan, S., 'Reliability-based optimal design of a steel truss bridge girder using fuzzy system reliability analysis', Journal of the Institution of Engineers (India) - Civil Engineering Division, Vol. 85, No. 4, February 2005, pp. 247-253.
- [12] Arul Jayachandran, S., Kalyanaraman, V., and Narayanan, R., " Marguerre shell type decant matrices for the postbuckling analysis of thin shallow composite shells", International Journal of Structural Engg. and Mechanics, Vol.18, No.1, July 2004, pp. 41-57.
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