



**Professor Lingadahally S. Ramachandra**

Department of Civil Engineering  
Indian Institute of Technology (IIT) Kharagpur 721302

**Biography:**

Ph.D from IIT Madras (date not given)  
L. S. Ramachandra joined the Institute in 1996

**Research Areas:**

Stability of Structures  
Nonlinear Vibrations  
Shell analysis

**On-going Consultancy Projects:**

1. Project Name : Inspection of hollow box segmental cantilever pre-stressed bridge over river Kata Khali at Hasnabad

Client : Government of West Bengal  
Consultant : Prof. L.S. Ramachandra  
Co-consultant(s) : Prof. N. Dhang; Prof. D. Roy

2. Project Name : Proof Checking of Structural design of bridges for Package-I  
Client : Government of West Bengal  
Consultant : Prof. L.S. Ramachandra  
Co-consultant(s) : Prof. N. Dhang

**Selected Publications:**

1. Buckling and postbuckling response of sandwich panels under non-uniform mechanical edge loadings by Tanish Dey and L.S. Ramachandra Composites: Part B, 60, 537-545 (2014)
2. Dynamic instability of composite plates subjected to non-uniform in-plane loads. by L.S. Ramachandra and Sarat Kumar Panda Journal of Sound and Vibration, 331, 53-65 (2012)
3. Parametric instability of laminated composite cylindrical panels subjected to periodic non-uniform in-plane loads. by Sarat Kumar Panda and L.S. Ramachandra International Journal of Applied Mechanics, 3, 845-865 (2011)
4. Stability and Vibration Behavior of Composite Cylindrical Shell Panels under Axial Compression and Secondary Loads by Girish, J. and Ramachandra, L.S. Journal of Applied Mechanics, 75, 1-11 (2008)
5. Nonlinear Response of Laminated Cylindrical Shell Panels Subjected to Thermo-Mechanical Loads by Singha, M.K., Ramachandra, L.S., and Bandyopadhyay, J.N. Journal of Engineering Mechanics, 132, 1088-1095 (2006)
6. Nonlinear Static Response and Free Vibration Analysis of Doubly Curved Cross-ply Panels by Girish, J. and Ramachandra, L.S. Journal of Aerospace Engineering, 20, pp. 45-52. (2007)
7. A multi-step linearization technique for a class of boundary value problems in non-linear mechanics by Rajesh Kumar, Ramachandra L.S., and Roy D Computational Mechanics, November , Pages1-9 (2005)
9. Thermomechanical Postbuckling Analysis of Cross-Ply Laminated Cylindrical Shell Panels by Girish J, and Ramachandra L.S. J. Engineering Mechanics, Vol.132, pp. 133-140 (2006)
10. Thermal Postbuckling and Vibration Analysis of Antisymmetric Angle-ply Composite Plates by Girish, J. and Ramachandra, L.S. Journal of Thermal Stresses, 28, pp. 1145-1159 (2005)
11. Vibration Behaviour of Thermally Stressed Composite Skew Plate by Singha, M.K., Ramachandra, L.S., and Bandyopadhyay, J.N. Journal of Sound and Vibration, 296, pp. 1093-1102 (2006)
12. A new method for non-linear two-point boundary value problems in solid mechanics by Ramachandra, L. S., and Roy, D Journal of Applied Mechanics, ASME, 68 PP 776 - 786 (2001)
13. Stability and strength of composite doubly curved panels under thermo-mechanical loadings by Singh, M. K., Ramachandra, L.S., and Bandyopadhyay, J. N AIAA Journal, 39(8), PP 1618 - 162 (2001)
14. Thermal post buckling analysis of composite plates by Singh, M. K., Ramachandra, L.S., and Bandyopadhyay, J. N Journal of Composite Structures, 54 PP 453 - 458 (2001)
15. The Locally Transversal Linearization (LTL) Method Revisited: A Simple Error Analysis by L.S. Ramachandra and D. Roy Journal of Sound and Vibration, 256 PP 579-589 (2002)