



Professor Namasivayam Ganesan

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Civil Engineering Department
National Institute of Technology Calicut, India

Education:

B.E (Civil) Civil Engineering (Madurai University)

M.E Structural Engineering (Indian Institute of Science, Bangalore)

Ph.D Structural Engineering (Indian Institute of Science, Bangalore)

Research Interests:

Fibre Reinforced Concrete, Ferrocement; Polymer Modified SFRC ,HPC ,SCC; Application of Fracture Mechanics to Cementitious Materials; Strength and Ductility of Seismic Resistant Structures; Geopolymer Concrete.

Awards and Honors:

1. Received the Sir Vital N Chandavarkar Gold Medal from I.I.Sc Bangalore in the year 1986 for the best Ph.D thesis
2. Received E P Nicolaidis Gold Medal for the Best Research Paper published in the Civil Engineering Journal of The Institution of Engineers in 2007
3. Received The Railway Board's prize for best research paper entitled "A Simplified Procedure for Design of Machine Foundations Subjected to Vertical Vibrations" published in the Journal of IE (I) in 2008
4. E.P. Nicolaidis Prize by the Institute of Engineers for the best paper published in the Journal of Institution on December 11, 2009 for the paper entitled. Design of Continuous Deep beams using Is 456:2000 & Strut and Tie method.

5. Received Indian Society for Technical Education National Award for guiding Best M.Tech thesis in Civil Engineering which was presented during the Inaugural function of the 40th Annual Convention of ISTE on December 2, 2010.
6. Received for the second time National Award (First Prize) from the Indian Society for Technical Education for guiding Best M.Tech thesis in Civil Engineering which was presented during the Inaugural function of the 41st Annual Convention of ISTE on December 16, 2011 at Punjab.
7. Received the Indian Concrete Institute - UltraTech Award for Outstanding Concrete Engineer of Kerala - 2014 on 15th October 2014

Selected Publications:

- K.R. Sivadas and N. Ganesan, "Vibration analysis of thick composite clamped conical shells of varying thickness", *Journal of Sound and Vibration*, Vol. 152, No. 1, January 1992, pp. 27-37
- Nabi, S. M. and Ganesan, N.(1993), Vibration and damping analysis of pre-twisted composite blades, *Computers and Structures*, 47(2), 275-280
- Saravanan C, Ganesan N, Ramamurti V. Analysis of active damping in composite laminate cylindrical shells of revolution with skewed PVDF sensors/actuators. *Compos Struct* 2000;48:305–18.
- Jayaraj Kochupillai, N. Ganesan and Chandramouli Padmanabhan, "A semi-analytical coupled finite element formulation for shells conveying fluids", *Computers & Structures*, Vol. 80, Nos. 3-4, February 2002, pp. 271-286
- N. Ganesan and Ravikiran Kadoli, "Buckling and dynamic analysis of piezothermoelastic composite cylindrical shell", *Composite Structures*, Vol. 59, No. 1, January 2003, pp. 45-60
- Kadoli R., Ganesan N., 2003, Free vibration and buckling analysis of composite cylindrical shells conveying hot fluid, *Composite Structures* 60: 19–32.
- Kadoli R and Ganesan N (2004), Parametric resonance of a composite cylindrical shell containing pulsatile flow of hot fluid, *Composite Structures*, 65, 391-404.
- Ganesan N and Kadoli RK (2004), A study on the dynamic stability of a cylindrical shell conveying a pulsatile flow of hot fluid, *Journal of Sound and Vibration*, 274(3-5), 953-984.
- N. Ganesan and Ravikiran Kadoli, "Studies on linear thermoelastic buckling and free vibration analysis of geometrically perfect hemispherical shells with cut-out", *Journal of Sound and Vibration*, Vol. 277, Nos 4-5, November 2004, pp. 855-879
- Ravikiran Kadoli and N. Ganesan, "A theoretical analysis of linear thermoelastic buckling of composite hemispherical shells with a cut-out at the apex", *Composite Structures*, Vol. 68, No. 1, April 2005, pp. 87-101
- Bhangale, R. K., and Ganesan, N., "A Linear Thermoelastic Buckling Behavior of Functionally Graded Hemispherical Shell with a Cut-out at Apex in Thermal Environment", *International Journal of Structural Stability and Dynamics*, Vol. 5, No. 2, pp. 185-215, (2005).
- Bhangale RK., Ganesan N., 2005, Free vibration studies of simply supported non-homogeneous functionally graded magneto-electro-elastic finite cylindrical shells, *Journal of Sound and Vibration* 288: 412-422.
- V. Pradeep, N. Ganesan and C. Padmanabhan, "Buckling and Vibration Behavior of a Viscoelastic Sandwich Cylinder under Thermal Environment", *International Journal for Computational Methods in Engineering Science and Mechanics*, Vol. 7, No 5, 2006, pp. 389 – 401
- Bhangale, R. K., and Ganesan, N., 2006, "Free Vibration of Simply Supported Functionally Graded and Layered Magneto-Electro-Elastic Plates by Finite Element Method," *J. Sound Vib.*, 294, pp. 1016–1038.
- Bhangale, R. K., and Ganesan, N., 2006, "Static Analysis of Simply Supported Functionally Graded and Layered Magneto-Electro-Elastic Plates," *Int. J. Solids Struct.*, 43, pp. 3230–3253.
- Kadoli, R., and Ganesan, N., 2006, "Buckling and Free Vibration Analysis of Functionally Graded Cylindrical

Shells Subjected to a Temperature-Specified Boundary Condition,” J. Sound Vib., 289, pp. 450–480.

Bhangale, R. K., and Ganesan, N., 2006, “Thermoelastic Buckling and Vibration Behavior of a Functionally Graded Sandwich Beam With Constrained Viscoelastic Core,” J. Sound Vib., 295, pp. 294–316.

Bhangale RK, Ganesan N, Padmanabhan C (2006) Linear thermoelastic buckling and free vibration behavior of functionally graded truncated conical shells. J Sound Vib 292: 341–371

V. Pradeep, N. Ganesan and K. Bhaskar, Vibration and thermal buckling of composite sandwich beams with viscoelastic core, Composite Structures, 81 (1) (2007) 60–69.

Vamsi KB, Ganesan N. Studies on fluid-filled and submerged cylindrical shells with constrained viscoelastic layer. J Sound Vib 2007;303:575–95.

Senthil KD, Ganesan N. Dynamic analysis of conical shells conveying fluid. J Sound Vib 2008;310:38–57.

R. Jerome and N. Ganesan, “Generalized plane strain finite-element formulation for thermal and electrical buckling analysis of piezo composite beam,” Journal of Mechanics of Materials and Structures, vol. 3, no. 9, 2008

A. Kumaravel, N. Ganesan, Raju Sethuraman, (2010) "Buckling and vibration analysis of layered and multiphase magneto-electro-elastic cylinders subjected to uniform thermal loading", Multidiscipline Modeling in Materials and Structures, Vol. 6 Iss: 4, pp.475 – 492

N. Ganesan, P.V. Indira and Anjana Santhakumar (Department of Civil Engineering, National Institute of Technology Calicut, India), “Prediction of ultimate strength of reinforced geopolymer concrete wall panels in one-way action”, Construction and Building Materials, Vol. 48, pp 91-97, November 2013