

Dr Hemant S. Patil

Professor

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Education:

- B. E. (CIVIL) with First Rank & Gold Medal in 1977 from Nagpur University. Maharashtra, India.
- M. E. (CIVIL) Specialization in Structure in 1979 from I. I. Sc. Bangalore, India.
- Ph.D. (Civil) Specialized in Structural Engineering in 1993 from I.I.T. Bombay, India.

Professional Interests:

Dr Hemant S. Patil has been actively involved in the Advanced Analysis of Three Dimensional Space Structures using Finite Element Approach, Application of Fiber Reinforced Composite materials to Civil Engineering Structures and Supervising research Student in diverse fields Ranging from Concrete, Steel Structures to Web based Applications using Virtual Reality Techniques.

Representative Publications:

➤ Journal & International Conference

Sr. No.	Title of Paper	Name of Journal	Page No. / Volume / Issue Year
1.	Buckling Loads of Sandwich Columns with a Higher-Order Theory	Journal of Reinforced Plastics and Composites	1991 Vol.10, No.1 PP. 102 to 109
2.	Buckling Analysis of Laminated/Sandwich Plates Using a Higher-Order Theory	Third APCOM in Seoul S. Korea	17 September 1996 Vol-1 Paper No. 316
3.	Analysis of Axially Load Statically Indeterminate for using an Innovative Relative Deformation Coefficient	Journal of Engineering and Technology, Sardar Patel University, Vallabh Vidyanagar, India	1999 Vol-12 pp. 61 - 64.

4.	Analysis of Continuous Beam using an Innovative Relative Deformation Coefficient Method	Journal of Mechanical Engineering, Space Application Centre, Ahmedabad, India	1999 Vol-3 pp. 5 - 12
5.	Direct Inverted Stiffness Matrix for Continuous Beam using an Innovative Approach with Relative Deformation Coefficient	paper presented at the Structural Convention - 2000, at I.I.T. Bombay	5 - 8 Jan. 2000, pp. 329 to 336
6.	Direct Optimization of Space Structure Using Genetic Algorithm	Journal of engineering and Technology, Sardar Patel University, Vallabh vidyanagar, India.	Dec-2005 Vol-18 pp. 79 to 91
7.	Design of Reinforced Concrete bi-axially Loaded Rectangular column using Artificial Neural Network	SEC-2005(Structural Engineering Convention), Civil Engineering Department IISC Bangalore	14-16 Dec 2005
8.	Guidelines for Developing Neural Network Applications using Back-Propagation in Structural Engineering	National Conference on Recent Advances in Structural Engineering, JNTU College of Engineering, Kakinada(A.P.)	11-12 Feb 2006
9.	Seismic Analysis of curved Cable Stayed Bridge with reference to Bhuj earthquake	8 th International conference on "steel space and composite structures"; Kuala Lumpur, Malaysia	15-17 may 2006 PP. 193 to 202
10.	Formex Configuration Processing & CAD Application of 3D Braced Domes	Structural Engineering Convention (SEC) 2003, IIT Kharagpur, India.	Dec. 12 to 14 2003 pp. 590 to 600.
11.	Study of the geometry and folding pattern of leaves of Mimosa Pudica	Journal of Bionic Engineering	Vol. 4 no.1 March 2007
12.	Parametric Study of Reinforced Concrete Interior Frame Joints Subjected to Seismic Loads	9 th Canadian Conference on Earthquake Engineering, June 2007	June 25 to 29 2007.
13.	Geopolymer Concrete - A Concrete to be Known More	International Journal of Applied Engineering research (IJAER)	Dec-2008 Vol-3, No.12
14.	Bacterial Concrete – A Self Healing Concrete	International Journal of Applied Engineering research (IJAER)	Dec-2008 Vol-3, No.12
15.	Wind Pressure Co-efficient Prediction on Different Span to Height Ratios Domes using Artificial Neural Networks	Asian Journal of Civil Engineering (Building & Housing)	April 2009 Vol-10, No. 2