

Department of Applied Mechanics

Name:

Dr. G. N. Ronghe,

Professor

**Area of Specialization:**

Structural Instrumentation and NDT, Pre-stressing of Steel Structures

Prominent journal paper publications

1. G. N. Ronghe, L. M Gupta. Optimum Design of Reinforced Concrete Beams using Polynomial Optimization Technique, Advances in Structural Engineering, Multi Science Publishing, UK, January 2000, Vol. 3, No. 1, PP. 67-80.
2. G. N. Ronghe, L. M Gupta. Parametric Study of Tendon profiles in Pre-stressed Steel Plate Girder, Advances in Structural Engineering, Multi Science Publishing, UK, May 2002, Vol. 5, No. 2, PP. 75-85.
3. G. N. Ronghe et.al., Parametric study of three Hinged Arch, Journal of Institution of Engineers (India), Sept 1995, Vol. 76,1 – 4
4. G. N. Ronghe et.al., Parametric study of steel Head frame, Journal of Institution of Engineers (India), Feb 1999, Vol. 79,172 – 174
5. G. N. Ronghe et.al., Parametric study of pre-stressed Un-symmetrical Steel Beam, Journal of Institution of Engineers (India) Aug, 1999, Vol .80,94 – 99

Prominent journal paper publications

6. G. N. Ronghe et.al., Study of Pre-stressed / Un-prestressed and Symmetrical/Un-symmetrical steel plate girder for bridges, Journal of Steel in Construction (INSDAG) Kolkata, Jan.2002, Vol.3,No.1,49 – 58

- 7. G. N. Ronghe et.al., Experimental Study of Prestressed Steel Bridge Plate Girder with different tendon profiles, Journal of Bridge & Structural Engg. New-Delhi, (IABSE), - Accepted for publication**
- 8. G. N. Ronghe et.al., Composite Floor System- A Cost Effective Study, Concrete India, Journal of the India Chapter of American Concrete Institute, Mumbai. Oct-Dec.2006, Vol.21, No.4, pp. 3-8.**
- 9. G. N. Ronghe et.al., Construction Methodology of Composite Slab with Steel Decking, Concrete India, Journal of the India Chapter of American Concrete Institute, Mumbai. Apr-Jun.2007, Vol.22, No24, pp. 15-19.**
- 10. G. N. Ronghe et.al., Time and cost evaluation of construction of steel framed composite floor and RCC flat slab structures**
- 11. Bulletin of Association of Consulting Civil Engineers (India), Bangalore July-September 2008, Vol.3, No.1, pp 26-34**
- 12. G. N. Ronghe et.al., Linear Finite Element Analysis of Profiled Steel Concrete Composite Deck., Steel in Construction, Journal of the Institute for Steel Development & Growth (INSDAG), Kolkata Jan 2009, Vol.10, No.1, pp. 23-28.**
- 13. G. N. Ronghe et.al., Preliminary Design of Cold-Formed Thin-Walled Trapezoidal Profiled Steel Deck – A Parametric Study, The Icfai University Journal of Structural Engineering, Hyderabad. Oct 2009, Vol.II, No.4, pp. 66-75.**

Other prominent publications (Conf.)

- 1. G. N. Ronghe et.al., An Analytical Investigation of Prestressed Open Web Steel Bridge Girder, International Conference on, “Challenges to Civil Engineers in 21st Century” at Kathmandu, Nepal, 7-9 April, 1999, 91-99**
- 2. Vol. 1**
- 3. G. N. Ronghe et.al., Study of Tendon Profile On Analysis & Design of Prestressed Steel Beams , International Conference on“Advances in Steel Structures”, Hong Kong University, ICASS’9915 – 17 Dec 1999, 921–929, Vol.2**
- 4. G. N. Ronghe et.al., Analysis & Design of Steel Head Frame Considering the Effect of Braking Forces, National Conference on Computer Aided structural design, NC-CASAD-96, Hyderabad, 3-5 Jan-1996, 34-36**
- 5. G. N. Ronghe et.al., Alternative Design for Sheonath-River Bridge near Durg, India, National Seminar on Private Participation in Bridge, Construction, Indian Institution of Bridge Engineer, Pune Center. 20 – 22 April 2001, 209-215**
- 6. G. N. Ronghe et.al., Study of Arch Bridges, National Workshop on Advances in Structural Engg. Tirupati (A.P.) 21-22 Dec.2001, 81 – 88**
- 7. G. N. Ronghe et.al., Vibration Measurement for Structural Testing, Workshop on Instrumentation & rehabilitation of Environ. Engg. Structures at VRCE Nagpur 25th March, 1991, 51 – 56**
- 8. G. N. Ronghe et.al., State of the art report on thin-walled cold-formed profiled steel decking, 19th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, USA, 15th & 16th Oct 2008, pp. 307-323**
- 9. G. N. Ronghe et.al., Time & Cost Evaluation of Construction of Steel Framed Composite Floor with Precast Concrete Floor Structures, 26th International Symposium on Automation and Robotics in Construction (ISARC), Austin, Texas, U.S.24th-27nd June,2009 , pp.131-139**
- 10. G. N. Ronghe et.al., Behaviour and Design of Profiled Steel Decks with Intermediate Stiffeners as Permanent Formwork, National Conference on Advances in Steel Structures, Department of Applied Mechanics, SVNIT, Surat-395007.8th-9th June 2007, pp. 15-19.**

Ph D research students guided, research topics, brief statement of achievements,

Student: Prof. N A Hedao, Topic: Study of Concrete Composite Slab with profiled Steel Decking (Expt. Work)