

Analysis and Design of FRP Reinforced Concrete Structures (P/L Custom Scoring Survey)

By Shamsher Bahadur Singh

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The Most Complete FRP Reinforced Concrete Structure Analysis and Design Guide

This comprehensive reference provides proven design procedures for the use of fiber-reinforced polymer (FRP) materials for reinforcement, prestressing, and strengthening of reinforced concrete structures. The characteristics of FRP composite materials as well as the latest manufacturing techniques are discussed. Detailed illustrations and tables, design equations, end-of-chapter problems, and real-world case studies are included in this authoritative resource.

Analysis and Design of FRP Reinforced Concrete Structures covers:

- Material characteristics of FRP bars
- History and uses of FRP technology
- Design of RC structures reinforced with FRP bars
- Design philosophy for FRP external strengthening systems
- Durability-based design approach for external FRP strengthening of RC beams

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Editorial Review

About the Author

Shamsher Bahadur Singh has 25 years of teaching and research experience, including a postdoctoral fellowship in the U.S.. His area of specialization is in structural engineering with composite structure as a major area. Dr. Singh is the reviewer of many prestigious journals such as the *ASCE Journal of Composites for Construction, International Journal of Earth Science and Engineer, ACI Structural Journal, IJE,* and the *Journal of Korean Society of Civil Engineering*. He has been a member of various IIT Delhi committees such as the construction committee, committee for recruitment of project engineers, and committee for recruitment of BITS faculty. Dr. Singh is an editorial board member of the *IJEE Journal* and the *Journal of Civil Engineering and Architecture*, published by Lublin University of Technology, Faculty of Civil Engineering and Architecture.

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