



Reinforced Concrete with FRP Bars: Mechanics and Design

Antonio Nanni, Antonio De Luca, Hany Jawaheri Zadeh

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Corrosion-resistant, electromagnetic transparent and lightweight fiber-reinforced polymers (FRPs) are accepted as valid alternatives to steel in concrete reinforcement. **Reinforced Concrete with FRP Bars: Mechanics and Design**, a technical guide based on the authors' more than 30 years of collective experience, provides principles, algorithms, and practical examples.


Well-illustrated with case studies on flexural and column-type members, the book covers internal, non-prestressed FRP reinforcement. It assumes some familiarity with reinforced concrete, and excludes prestressing and near-surface mounted reinforcement applications. The text discusses FRP materials properties, and addresses testing and quality control, durability, and serviceability. It provides a historical overview, and emphasizes the ACI technical literature along with other research worldwide.

- Includes an explanation of the key physical mechanical properties of FRP bars and their production methods
- Provides algorithms that govern design and detailing, including a new formulation for the use of FRP bars in columns
- Offers a justification for the development of strength reduction factors based on reliability considerations
- Uses a two-story building solved in Mathcad® that can become a template for real projects

This book is mainly intended for practitioners and focuses on the fundamentals of performance and design of concrete members with FRP reinforcement and reinforcement detailing. Graduate students and researchers can use it as a valuable resource.

Antonio Nanni is a professor at the University of Miami and the University of Naples Federico II. **Antonio De Luca** and **Hany Zadeh** are consultant design engineers.

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