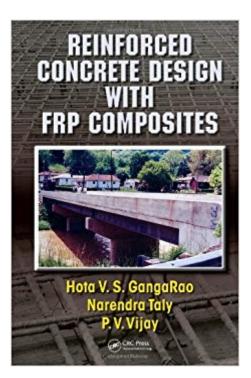


## The book was found

## Reinforced Concrete Design With FRP Composites





## Synopsis

Although the use of composites has increased in many industrial, commercial, medical, and defense applications, there is a lack of technical literature that examines composites in conjunction with concrete construction. Fulfilling the need for a comprehensive, explicit guide, Reinforced Concrete Design with FRP Composites presents specific information necessary for designing concrete structures with fiber reinforced polymer (FRP) composites as a substitute for steel reinforcement and for using FRP fabrics to strengthen concrete members. In a reader-friendly, design-oriented manner, this book discusses the analysis, design, durability, and serviceability of concrete members reinforced with FRP. The authors first introduce the elements that constitute composites-the structural constituent and matrix-and discuss how composites are manufactured. Following an examination of the durability of FRP composites that contain fibers, such as glass, carbon, or aramid, the book illustrates how FRP external reinforcement systems (FRP-ER) can be used for enhancing the strength and stiffness of concrete structures using theory and design principles. The concluding chapter concentrates on serviceability aspects of concrete members internally reinforced with FRP.An excellent resource of design and construction practices, Reinforced Concrete Design with FRP.

## **Book Information**

Hardcover: 400 pages Publisher: CRC Press; 1 edition (November 20, 2006) Language: English ISBN-10: 0824758293 ISBN-13: 978-0824758295 Product Dimensions: 6.1 × 0.9 × 9.2 inches Shipping Weight: 1.4 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #888,047 in Books (See Top 100 in Books) #89 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Concrete #176 in Books > Science & Math > Agricultural Sciences > Crop Science #216 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles Download to continue reading...

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