



Reinforced Concrete Design with FRP Composites

Hota V.S. GangaRao, Narendra Taly, P. V. Vijay

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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 Composites is a state-of-the-art reference on concrete members reinforced with FRP.

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