



Composites for Construction: Structural Design with FRP Materials

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Wiley, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Chapter 1. Introduction.1.1. Overview.1.2. Historical Background.1.3. FRP Reinforcements for New Concrete Structural Members.1.3.1. FRP bars or grids for reinforced concrete (RC) members.1.3.2. FRP tendons for prestressed concrete (PC) members.1.3.3. Stay-in-Place FRP formwork for reinforced concrete (RC) members.1.4. FRP Strengthening of Existing Structural Members .1.5. FRP Profiles for New Structures.1.6. Other Emerging Applications of Interest to Structural Engineers.1.7. Properties of FRP products for Structural Engineering Design.1.8. Published Design Guides, Codes and Specifications for FRP Composites in Structural Engineering.1.8.1. FRP Reinforcing Bars and Tendons.1.8.2. FRP Strengthening Systems.1.8.3. FRP Pultruded Profiles.1.8.4. Manufacturer Design Manuals.1.8.5. Key Conferences Series.1.8.6. Archival Journals.Chapter 2. Materials and Manufacturing.2.1. Overview.2.2. Raw Materials.2.2.1. Reinforcing Fibers.2.2.2. Polymer Resins.2.3. Manufacturing Methods.2.3.1. Pultrusion.2.3.2. Hand-layup.2.3.3. Other Manufacturing Processes.Chapter 3. Properties of FRP Composites .3.1. Overview .3.2. Theoretical determination of properties.3.2.1. The fiber level .3.2.2. The lamina level .3.2.3. The laminate level.3.2.4. The full-section level .3.3. Experimental determination of properties .3.3.1. The fiber level .3.3.2. The lamina level.3.3.3. The laminate level.3.3.4. The full-section level .3.4. Relevant Standard Test Methods for FRP Composites for Structural Engineers.3.4.1. American Society of Testing and Materials (ASTM).Chapter 4.

Reviews

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