



Strengthening Design of Reinforced Concrete with FRP (Composite Materials)

Hayder A. Rasheed

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Strengthening Design of Reinforced Concrete with FRP establishes the art and science of strengthening design of reinforced concrete with fiber-reinforced polymer (FRP) beyond the abstract nature of the design guidelines from Canada (ISIS Canada 2001), Europe (FIB Task Group 9.3 2001), and the United States (ACI 440.2R-08). Evolved from thorough class notes used to teach a graduate course at Kansas State University, this comprehensive textbook:

- Addresses material characterization, flexural strengthening of beams and slabs, shear strengthening of beams, and confinement strengthening of columns
- Discusses the installation and inspection of FRP as externally bonded (EB) or near-surface-mounted (NSM) composite systems for concrete members
- Contains shear design examples and design examples for each flexural failure mode independently, with comparisons to actual experimental capacity
- Presents innovative design aids based on ACI 440 code provisions and hand calculations for confinement design interaction diagrams of columns
- Includes extensive end-of-chapter questions, references for further study, and a solutions manual with qualifying course adoption

Delivering a detailed introduction to FRP strengthening design, **Strengthening Design of Reinforced Concrete with FRP** offers a depth of coverage ideal for senior-level undergraduate, master's-level, and doctoral-level graduate civil engineering courses.

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