



Strengthening Design of Reinforced Concrete with Frp (Hardback)

By Hayder A. Rasheed

Apple Academic Press Inc., Canada, 2014. Hardback. Book Condition: New. 232 x 158 mm. Language: English . Brand New Book. 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...



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