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The Most Complete FRP Reinforced Concrete Structure Analysis and Design Guide. This comprehensive reference provides proven design procedures for the use of fiber-reinforced polymer (FRP) materials for reinforcement, prestressing, and strengthening of reinforced concrete structures. The characteristics of FRP composite materials as well as the latest manufacturing techniques are discussed.

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[Analysis and Design of FRP Reinforced Concrete Structures](#) covers: Material characteristics of FRP bars; History and uses of FRP technology; Design of RC structures reinforced with FRP bars; Design philosophy for FRP external strengthening systems; Durability-based design approach for external FRP strengthening of RC beams

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Main Analysis and Design of FRP Reinforced Concrete Structures. Analysis and Design of FRP Reinforced Concrete Structures Shamsheer Bahadur Singh. Categories: Technique\Construction: Cement Industry. Year: 2014. Edition: 1. Publisher: McGraw Hill Education (India) Private Limited. Language: english. Pages: 348. ISBN 10: 1259058913.

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A design procedure was proposed by Bank where the

strengthened section is designed as under-reinforced so that the FRP laminate develops the sustained bearing (also known as shear-out) failure prior to concrete crushing, which is the ideal condition for MF-FRP systems. The design procedure requires first to calculate the target (strengthened) ultimate moment and then determine the number of fasteners, their spacing, and the number of FRP laminates.

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The scope of the research program includes six tasks; (i) the development of a computer program (SEQUAKE) for static and dynamic inelastic response history analysis of FRP and steel reinforced concrete structures, incorporating hysteretic behaviour of steel and FRP reinforced concrete elements, (ii) selection and design of concrete frame buildings with different heights, located in Eastern and ...

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