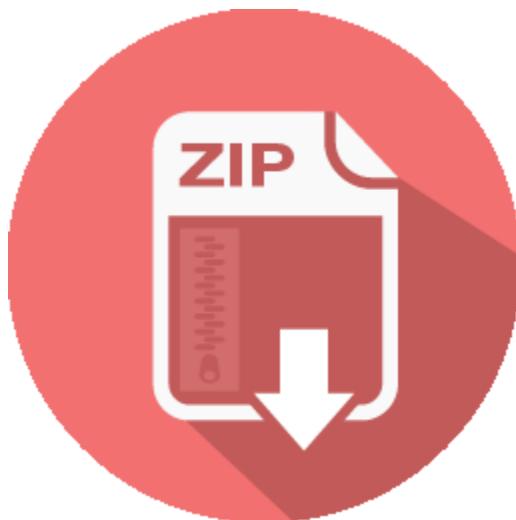


**FLEXURAL BEHAVIOUR OF CONCRETE BEAMS**  
**REINFORCED WITH GLASS FIBER REINFORCED POLYMERS**  
**REBARS**



**RELATED BOOK :****Flexural Behavior of Fiber Reinforced Concrete Beams**

Flexural Behavior of Fiber-Reinforced-Concrete Beams Reinforced with FRP Rebars by H. Wang and A. Belarbi Synopsis: The main objective of this study was to develop a nonferrous hybrid reinforcement system for concrete bridge decks by using continuous fiber-reinforced-polymer (FRP) rebars and discrete randomly distributed polypropylene fibers. This

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**Flexural Behavior of Concrete Beams Reinforced with Glass**

This paper presents methods for predicting deflections and crack widths in beams reinforced with GFRP. To use the effective moment of inertia for concrete beams reinforced with GFRP bars, the effect of the fiber-reinforced polymer (FRP) reinforcement ratios and elastic modulus of FRP were incorporated in the exponent  $m$  of Branson's equation.

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**Flexural behavior of cantilever concrete beams reinforced**

reinforced with glass fiber reinforced polymers (GFRP) strength of concrete and ratios of GFRP rebars. The results of experiments were which focuses on the flexural behavior of concrete beams

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**Flexural Behavior of Fiber Reinforced Concrete Beams**

Flexural Behavior of Fiber-Reinforced-Concrete Beams Reinforced with FRP Rebars of the polypropylene-fiber-reinforced-concrete beams reinforced with FRP rebars. Flexural Behaviors of

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**Flexural behavior of ultra high performance fiber**

This study describes the flexural behavior of ultra-high-performance fiber-reinforced concrete (UHPFRC) beams reinforced with glass fiber-reinforced polymer (GFRP) rebars and hybrid reinforcements (steel + GFRP rebars). Three GFRP bar-reinforced beams and four hybrid reinforced beams with different reinforcement ratios were fabricated and tested.

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**Flexural Behaviour of Concrete Beams Reinforced IJARIIT**

cement concrete. The major cause of deterioration of reinforced concrete structures is corrosion of the reinforcing steel. Among others, one viable option is to reinforce concrete with rebars of glass fiber-reinforced polymer (GFRP), a noncorrosive material. GFRP reinforcing bars are made primarily of glass fibers.

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**Flexural behaviour of concrete beams internally reinforced**

An experimental study on the load deflection behaviour of concrete beams internally reinforced with glass fibre reinforced polymer (GFRP) rods and steel rebars was therefore conducted and some important findings are summarized in this paper.

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**Analytical and experimental flexural behavior of concrete**

The flexural behavior of concrete members reinforced with glass fiber-reinforced polymer (GFRP) reinforcing bars experimentally investigated by a number of studies , , , . They accounted for variations in concrete strength  $f_c$  , reinforcement ratio , FRP bars type, and shear span-depth ratio (  $a_v / d$  ).

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**Experimental study on flexural behavior of concrete beams**

Experimental studies investigating the flexural behavior of six concrete beams were conducted with various reinforcements, including ordinary steel bars, steel-fiber reinforced polymer composite bars, pure fiber-

reinforced polymer bars (either carbon fiber reinforced polymer bars or basalt fiber reinforced polymer bars), and hybrid bars (steel bars and basalt fiber reinforced polymer bars).

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### **ACI STRUCTURAL JOURNAL TECHNICAL PAPER Flexural Behavior**

Flexural Behavior of One-Way Concrete Slabs Reinforced by Fiber Reinforced Plastic Reinforcements presents test results of eight one-way concrete slabs reinforced with glass fiber, carbon-fiber and conventional steel reinforcements. The slabs were nized or epoxy coated rebars.<sup>5</sup> Long term efficiency of these

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### **Flexural behaviour of BFRP rebar reinforced concrete beams**

Flexural behaviour of BFRP rebar reinforced concrete beams Deterioration of concrete structures caused by corrosion of the steel reinforced bar (rebar) inside the structures has led to a significant focus on developing more efficient and sustainable alternatives.

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### **Flexural Behavior of GFRP Reinforced Concrete Masonry**

Two masonry beams were reinforced using conventional steel rebars and were considered as the control specimens. The remaining five beams were internally reinforced using GFRP rods with different reinforcement ratios. Beams were detailed to have sufficient shear reinforcement such that they do not fail in shear. Flexural capacity, deformation, curvature, and strains of the tested GFRP-reinforced and steel-reinforced masonry beams were compared and discussed.

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### **Modelling of Reinforced Concrete Flexural Members**

flexural behavior of reinforced concrete beams strengthened with various Near-Surface Mounted (NSM) Fiber-Reinforced Polymers (FRP) reinforcements. The materials used in this investigation included carbon-fiber-reinforced-polymer (CFRP) rebars and strips, and glass fiber-reinforced-polymer (GFRP) rebars and strips. The analysis included the

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### **Shear strength of glass fiber reinforced polymer**

The shear behaviour of continuous concrete beams reinforced with glass fiber reinforced polymer (GFRP) bars without shear reinforcement has not been studied yet. However, the current codes and guidelines for FRP-reinforced concrete (RC) structures provide shear provisions that are applicable to both simple and continuous members.

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### **Effect of interfacial strength on the flexural behavior of**

Effect of interfacial strength on the flexural behavior of glass fiber reinforced polymer (GFRP) reinforced concrete beam. Authors; Authors and affiliations; Yafang Zhang ( ) Elzeiny S M. Influence of Fibers on Flexural Behavior and Ductility of Concrete Beams Reinforced with GFRP Rebars[J].

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