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Fibre-reinforced polymer bars have been widely used for strengthening concrete members due to their high strength, light weight and strong corrosion resistance. A near-surface mounted strengthening...

Flexural behaviour of reinforced concrete beams strengthened with pre-stressed and near surface mounted steel-basalt-fibre composite bars - Yajun

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Concrete Beam
Zhao, Yimiao Huang,
Haiyang Du, Guowei
Ma, 2020.

Flexural behaviour of reinforced concrete beams ...

Flexural behaviour of
the textile-reinforced
concrete (TRC)
specimens with
different number of
textile layers, volume
contents of steel fibres,
and prestress.

Specimen Average
value (standard

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Behaviour Of
(deviation)

Reinforced

Flexural Behaviour of Carbon Textile- Reinforced Concrete

...

The investigation revealed that the flexural behaviour of reinforced GGBS concrete beams is comparable to that of reinforced concrete beams. Keywords:- Ordinary Portland cement, Ground Granulated Blast

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furnace Slag,
Reinforced concrete
beams, moment-
curvature

Flexural Behaviour of Reinforced Concrete Beams with ...

Hegger et al. studied the flexural behavior of TRC reinforced with textiles made of carbon and alkali-resistant (AR) glass fibers using four-point bending tests, and obtained the

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Behaviour Of
influence of
reinforcement ratio on
the ultimate stress,
crack spacing, and
elongation in the
tension zone of TRC.

Flexural behavior of basalt textile- reinforced concrete

...

The flexural behaviour
of fibre reinforced
concrete under cyclic
loading was studied.
The fibres orientation
depends mainly upon

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the workability properties of the concrete mixture. The use of steel fibres in concrete improved the flexural tensile strength and the ductility.

Flexural behaviour of steel fibre- reinforced concrete

...

The tensile behaviour of FRP reinforcement is dependent on a number of factors

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especially the fibre volume to the total volume of the FRP reinforcement (fibre-volume fraction). By altering this fraction, the strength and stiffness of FRP bars can be changed (Fico 2007).

Flexural Capacity and Behaviour of Geopolymer Concrete ...

The effect of inclusion of steel fibers on the

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flexural behavior of high-strength concrete beams is investigated. Eight high-strength concrete beams with different fiber contents and shear span-depth ratios were tested to study the influence of fiber addition on ultimate load, crack propagation, flexural rigidity, and ductility.

Flexural Behavior of High-Strength Fiber Reinforced ...

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This paper for the first time presents an experimental study on flexural fatigue behaviour of concrete reinforced with RTPF considering different fibre dosages (i.e., 1.2, 2.4, 4.8 and 9.6 kg/m³). Results indicate that with the presence of RTPF, the flexural strength of concrete was increased by 3.6–9.6%.

Flexural fatigue

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behaviour of recycled tyre polymer fibre ...

Unconfined and confined stress-strain behavior of concrete were used for determining the ultimate flexural capacity of the beams with different FRP strengthening. The analysis was carried out based on the strain compatibility procedure using the constitutive

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Behaviour Of
Reinforced
Concrete Beam
relationship of
concrete, steel and FRP
composites (Fig. 11).

Experimental and finite element studies on the flexural ...

Flexural behavior of
FRC beams strongly
depends on the
reinforcing ratio of the
longitudinal rebars; the
latter cannot really be
substituted by FRC
because the fibers are
not particularly

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efficient for resisting localized tensile stresses due to bending.

Flexural Behavior - an overview | ScienceDirect Topics

The flexural behaviour of GPC beams were studied and reported that the conventional reinforced concrete theory can be used for GPC beams under flexure study for the computation of

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moment capacity,...

Reinforced **Flexural Behaviour of Reinforced Concrete Beam Containing Geopolymer Concrete Beams ...**

Flexural Behaviour of
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Beams Retrofitted
Using CFRP Strips. June
2003 Conference:
Advances in
Structures: Steel,
Concrete, Composite
and Aluminium
ASSCCA'03

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Beams ...**

Flexural Behavior of
Steel Fiber Reinforced
Concrete Article (PDF
Available) in Journal of
Materials in Civil
Engineering
10(2):86-97 · May 1998
with 814 Reads How
we measure 'reads'

**(PDF) Flexural
Behavior of Steel
Fiber Reinforced**

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This paper presents the results relating to the flexural behavior of the polypropylene-fiber-reinforced-concrete beams reinforced with FRP rebars. Test results indicated that with the addition of fibers, the flexural behavior was improved with an increase of ductility index by approximately 40% as compared to the plain concrete beams.

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Flexural Behavior of Fiber-Reinforced- Concrete Beams ...

behaviour after its yield strength, the FRP bar shows perfect elastic-brittle behaviour without the yield point. Such a great mechanical and physical difference demands to pay special care and attention when applying FRP bars to a reinforced concrete

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structure. Some relevant regulations (including ACI440.1R)

Flexural behavior of concrete beams with steel bar and FRP ...

This video shows the flexural behavior of Reinforced Concrete Beams (without shear links and with shear links). It is part of the experimental campaign for u...

Flexural Behavior of

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Reinforced Concrete Beams - YouTube

With the increase in the amount of steel fibers, the maximum deflection of the two types of steel fiber reinforced concrete specimens continues to increase. Even if the crack eventually penetrates the entire section of the specimens, the concrete can still bear a certain load.

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Influence of Tire- Recycled Steel Fibers on Strength and ...

On Influence of Limited
Temperature
Deformations of
Reinforced Concrete
Flexural Elements on
Survivability of
Buildings and
Structures; UDC
624.012.45.042.5
Nataliya V. KLYUEVA,
Ashot G. TAMRAZYAN
Abstract. The
endurance of buildings

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and structures is provided by stability of key elements in the structural system against various beyond design ...

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Therefore, the aim of this study is the evaluation of the flexural behaviour of simple beams that are strengthened using this technique. Six unbonded

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Behaviour Of
posttensioned concrete
(UPC) beams with
different reinforcement
ratios are damaged by
static loads and then
repaired and
strengthened using AA
plates.

Flexural Behaviour of Unbonded Posttensioned Concrete Beam ...

Method Tm 1001 CA &
Mg - Free download as
Word Doc (.doc), PDF
File (.pdf), Text File

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(.txt) or view
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