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Shear Behavior Of Circular Concrete

The cyclic-shear behavior of composite circular concrete-filled steel tubes (CFSTs) and reinforced concrete-filled

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steel tubes (RCFSTs) was experimentally and numerically investigated. Specimens with 32.39 and 40.64 cm diameters were considered, with diameter-to-thickness ratios of 51 and 64, respectively.

Investigation of Cyclic-Shear Behavior of Circular ...

This paper presents the results of an

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investigation of the shear strength and behavior of six circular concrete specimens reinforced with glass-FRP (GFRP) bars and spirals. The specimens, which measured 3,000 mm in length by 500 mm in diameter, were tested under four-point bending.

Shear Behavior of Circular Concrete

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This study examines the shear behavior of concrete-filled glass-fiber-reinforced-polymer (GFRP) tubes (CFFTs) reinforced with either steel or fiber-reinforced-polymer (FRP) longitudinal rebar.

Shear Behavior of Concrete Filled Circular FRP Tubes

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This paper presents the results of an investigation of the shear strength and behavior of six circular concrete specimens reinforced with glass-FRP (GFRP) bars and spirals. The specimens, which measured 3,000 mm in length by 500 mm in diameter, were tested under four-point bending.

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**(PDF) Shear Behavior of Circular
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“Effect of small circular opening on the shear and flexural behavior and ultimate strength of reinforced concrete beams using normal and high strength concrete.” Proceedings of the 13th World Conference on Earthquake Engineering , Vancouver.

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Shear behavior of Reinforced Concrete (RC ... - SpringerLink

Despite their frequent occurrence in practice, only limited researches on the shear behavior of RC circular members have been carried out. Most of the researchers and codes state that the shear strength of a beam is the sum of

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the contributions of concrete and shear reinforcement, if present.

Evolutionary Modeling to Evaluate the Shear Behavior of ...

This paper reports experimental data about the shear strength of circular concrete beams reinforced with carbon-FRP (CFRP) bars and spirals. A total of

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five full-scale concrete beams with a total length of 3,000 mm and diameter of 500 mm were constructed and tested up to failure.

Behavior of Circular Concrete Members Reinforced with ...

shear behavior of circular concrete members reinforced with FRP bars. The

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extrapolation of test results and proposed design equations on shear in rectangular FRP-reinforced concrete sections

Strength and Behavior of Circular FRP-Reinforced Concrete ...

Research into the shear behavior of FRP RC members has indicated that the

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fundamental shear behavior of FRP RC beams was similar to that of steel-reinforced concrete beams, despite the brittle

Behavior of Circular Concrete Members Reinforced with ...

This research investigated the panel zone shear behavior of a proposed

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through-flange connection for steel beams to circular concrete-filled steel tubular (CFT) columns. Four exterior beam-column specimens were designed and tested using cyclic loading applied to the beam end.

Panel Zone Shear Behavior of Through-Flange Connections ...

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Since the strength of concrete in tension is significantly lower than its strength in compression, design for shear is of major import in concrete structures. This course will use the strength design method or ultimate strength design (USD) to determine the shear strength of nonprestressed concrete beams.

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Shear Strength of Reinforced Concrete Beams per ACI 318-02

This paper reports on the experimental results of flexural tests on full-scale circular reinforced concrete members with a total length of 6000 mm and diameter of 500 mm reinforced with Basalt Fiber-Reinforced-Polymer (BFRP) reinforcement, followed by an intensive

Download File PDF Shear Behavior Of Circular Concrete Members Reinforced analytical study and finite-element analysis.

Flexural behavior of full-scale circular concrete members ...

In this paper, in order to investigate the shear mechanism and shear capacity of framework joints of steel-reinforced concrete-filled circular steel tube

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(SRCFCST), a numerical finite element model reflecting the mechanical behavior of framework joints of SRCFCST column-reinforced concrete beam is established through simulating concrete by the damage plastic constitutive model and simulating steel by the ideal elastic-plastic material, and its effectiveness is verified by experimental

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Shear Bearing Capacity of Framework Joints of Steel ...

The beams with circular openings were found to have a more ductile flexural behavior compared to the ones with triangular openings. The influence of web openings on the ductility and load-

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carrying capacity of a beam was shown to increase with the increasing tension reinforcement ratio in the beam.

Flexural behavior of RC beams with regular square or ...

Cyclic shear behavior and shear strength of steel tubed-reinforced-concrete short columns Show all authors. Jiepeng Liu 1.

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Jiepeng Liu Kowalsky, MJ, Priestley, MJN (2000) Improved analytical model for shear strength of circular reinforced concrete columns in seismic regions.

Cyclic shear behavior and shear strength of steel tubed ...

The concrete shear strength of circular RC members V_c , is proportional to the

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axial stiffness of the longitudinal reinforcing bars. The higher the reinforcement ratio, the higher the obtained shear strength. 3

Mechanism of distributed composite GFRP bars in circular ...

Despite their frequent occurrence in practice, only limited studies on the

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shear behavior of reinforced concrete (RC) circular members are available in the literature. Such studies are based on poor assumptions about the physical model, o

Research Article Evolutionary Modeling to Evaluate the ...

Shear behavior of a reinforced concrete

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(RC) beam designed without transverse reinforcement is significantly influenced by the properties of concrete. This paper investigates the effect of fly ash incorporation as 20 and 30% of the total binder content in 100% recycled aggregate concrete (RAC) beams designed without stirrups.

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