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The objective of this study was to study the effect of orientation of reinforcement on the compressive strength of concrete core. 10 mm and 12 mm reinforcement were embedded in the test ...

In this paper, fiber-based finite element (FE) models were developed to investigate the impact of corrosion on the seismic performance of RC frames with masonry infills at different scales.

Issue: How to design required reinforcement for RC core walls in Robot Structural Analysis.

A 3D model of an 18-story reinforced concrete core wall building was developed with experimentally calibrated wall piers and the Modified FDs considering the determined set of design ...

Performance-Based Design of Tall Reinforced Concrete Core Wall Buildings John W. Wallace Abstract Reinforced concrete (RC) walls are commonly used as the primary lateral-force-resisting system for ...

A modified macro numerical model for coupled RC shear/core walls is proposed to better consider the deformation compatibility between the coupling beam and the wall element and to incorporate...

This paper presents the work performed by an undergraduate student group at the American University in Cairo as a first phase of their graduation project that mimics a state-of-the-art industrial...

Reinforced concrete core walls with open sections are commonly used in practice as a lateral load resisting system for multi-storey buildings. This type of walls has mainly been modelled in the past ...

The objective of the test program was to provide an understanding of the additional web-shear strength afforded to the hollow-core slabs by unaltered core-fill concrete, as is currently used in practice, and ...

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