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polymer (FRP)  
materials for  
reinforcement,  
prestressing, and  
strengthening of  
reinforced concrete  
structures.

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## CONCRETE STRUCTURE ANALYSIS AND DESIGN.

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structures in many projects, but the study on strengthening frame joints is still little.

Especially the study on aseismic performance of frame structure side ...

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This work constitutes a contribution to the analysis of the

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behavior of beams reinforced by composite materials. The analysis was made by a study on concrete elements, and in pre-cracked reinforced concrete then reinforced with carbon fiber fabric bonded in tusi using an epoxy resin. In order to study the influence of the initial state of cracking, one of the beams was reinforced without it ...

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**Numerical analysis  
of reinforced  
concrete beams pre**

...

Since the mid-1950s, reinforced concrete design practice has made the transition from that based on elastic methods to the one based on strength.

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With the increasing use

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of composite materials as reinforcement in engineering structures, the fiber reinforced polymer (FRP) bar has been applied to various concrete structures, such as beams (e.g. Tighiouart et al ) and columns (e.g. Amer et al ). The FRP bar has advantages over the steel reinforcing bar because it is highly corrosion resistant and has a high strength to weight ratio.

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## **A fracture energy based constitutive model for the ...**

Many engineers use the structural analysis programs by Dlubal Software to perform the calculations and designs of 2D and 3D reinforced concrete structures such as buildings, slabs, plates, walls, columns, beams, continuous beams, frames, shells, and silos. Structural

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analysis software RFEM and RSTAB provide the optimal way to calculate and design structures consisting of reinforced concrete.

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the 2014 ACI 318 structural concrete code and the 2015 International Building Code®. Examples, procedures, and flowcharts illustrate compliance with each provision.

## **Reinforced Concrete Structures Analysis and Design, Second**

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### 1. INTRODUCTION

During recent years, interest in nonlinear

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analysis of concrete structures has increased steadily, because of the wide use of plain, reinforced and prestressed concrete as a structural material, and because of the development of relatively powerful finite element procedures [1].

## **NONLINEAR ANALYSIS OF CONCRETE**

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A six-story reinforced concrete frame structure is modeled using the approach proposed in this study. The progressive collapse of the structure is analyzed under column removal and direct blast loading scenarios. For comparison purpose, other popularly used finite element models are also adopted to carry out numerical

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simulations.

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The design of reinforced concrete structures is an introductory design course in civil engineering. In this course, basic elements governed by bending, shear, axial forces, or combination of them are identified and are considered as building

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blocks of the whole  
structure

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INTRODUCTION. The  
aim of design is the  
achievement of an  
acceptable probability  
that structures being  
designed will perform  
satisfactorily during

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their intended purpose. With an appropriate degree of safety, they should sustain all the loads and deformations of normal construction, use and have adequate durability and resistance to the effects of misuse and fire.

## **STRUCTURAL DESIGN OF a Reinforced concrete Residential ...**

The Windows-based  
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computer program, INSTRUCT (INelastic STRUCTural Analysis of Reinforced-Concrete and Steel Structures) is capable of performing

- 1) moment-curvature analysis of reinforced-concrete circular and rectangular sections;
- 2) pushover analysis of typical concrete column intermediate bents; and
- 3) pushover analysis of typical steel pile cap bents.

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**INelastic STRUCTural  
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The RF-CONCRETE add-on module for the design of structural components made of reinforced concrete consists of two separate parts: RF-CONCRETE Surfaces designs slabs, elevated slabs, plates, walls, planar structures, and shells for the ultimate and the serviceability

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