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276 ACI Structural Journal/March-April 2016 STRESSES AND STRAINS IN SFRC PLANAR ELEMENTS Stresses in SFRC element To analyze the shear behavior of an SFRC planar element, one must evaluate the stresses in three materials: namely, the concrete matrix, conventional deformed reinforcing bar, and steel fibers.

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288 ACI Structural Journal/March-April 2013 through bond between the reinforcement and the concrete. Tension softening, on the other hand, describes the existence of post-cracking tensile strength in the plain concrete. Figure 4 plots the principal tensile stress-strain responses of the control panels.

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616 ACI Structural Journal/July-August 2006 MCFT is capable of predicting the shear strength of a wide range of reinforced concrete elements with almost the same accuracy as the full theory. The expressions developed in the paper can form the basis of a simple, general, and accurate shear design method for reinforced concrete members.

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ACI Journal Manuscript Submission

Author: ACI Committee 318. Publication Year: 2019. Pages: 624. Categories: Codes. Formats: Printed Document or Protected PDF/Web View. Table of Contents. Chapter 1—General. Chapter 2—Notation and Terminology. Chapter 3—Referenced Standards. Chapter 4—Structural System Requirements. Chapter 5—Loads. Chapter 6—Structural Analysis ...

318-19: Building Code Requirements for Structural Concrete ...

1122 ACI Structural Journal/September-October 2017 In micro-models, the emphasis lies in developing transport equations for the reactants and the diffusion processes to quantify the gel formation and its swelling; the aggregate and the cement paste are typically modeled separately.12-14

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American Concrete Institute > Publications > ACI Materials ...

Examination of ACI 318 between 1971 and 2011 indicates that the main source of inconsistency in determining slenderness effects is the approximation of member stiffness, EI. When performing a second order analysis, the EI values used for strength design should reflect the member's stiffness immediately before failure. At that point, the degree of cracking varies along its length.

STRUCTURE magazine | Design of Slender Concrete Columns

ACI STRUCTURAL JOURNAL TECHNICAL PAPER The methods available in the literature for the analysis of reinforced concrete (RC) structures subjected to impact loads generally exhibit some deficiencies in aspects relating to applicability, practicality, and accuracy.

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ACI STRUCTURAL JOURNAL TECHNICAL PAPER Drilling slurry made from a mixture of water and mineral or polymer powder is often used to stabilize deep excavations, in which cast-in-place reinforced concrete foundation elements such as drilled shafts are constructed.

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324 ACI Structural Journal/March-April 2017 level of emissions per year per square meter of the floor area. Peuportier,11meanwhile, used a comparative assessment to compare the environmental impact of different buildings with different floor areas but the same air conditioning and illumination properties.

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