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Finite element analysis of punching shear of concrete ...  
Finite Element Design of Concrete Structures: practical problems and their solutions highlights that complex numerical calculations should not be used to compensate for any lack of practical knowledge of the structural behavior of a structure.

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The finite element method considers the moments throughout the slab and designs the flexural reinforcement on an element-by-element basis. Torsion can be taken into account by adjusting the x and y moments using the Wood-Armer method.

Concrete slab design

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SCIA N.V. together with Bekaert N.V. developed a unique solution for designing and checking of steel fibre reinforced concrete slabs. This is a one of the first known implementation of such a feature into finite element software (in this case SCIA Engineer).

Application of the design code for steel fibre reinforced ...

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Design of reinforced concrete D regions using strut and ...

2.2.1. Concrete. An eight-node solid element with three degrees of freedom at each node is employed to discretize the concrete component of the SCCR joint. The element is an advanced 3-D element which adopts the Willama and Warnke model , and it can simulate the cracking, crushing, plastic deformation, and creep behaviors of concrete. In the present study, the uniaxial tensile cracking stress of concrete is taken as 0.1 times that of the uniaxial crushing stress, and the shear transfer ...

Nonlinear finite-element-analysis and design of steel ...

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