

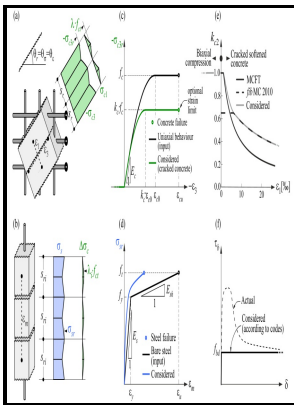
Design of concrete structures with stress fields

Birkhäuser - Design of Concrete Structures with Stress Fields by Joseph Schwartz, Aurelio Muttoni and Bruno Thürlimann (2011, Trade Paperback) for sale online

Description: -

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Strains and stresses.
Structural design.
Reinforced concrete construction. Design of concrete structures with stress fields
-Design of concrete structures with stress fields
Notes: Includes bibliographical references (p. 137-140) and index.
This edition was published in 1997

Tags: #Design #of #Concrete #Structures
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Design of Concrete Structures with Stress Fields (豆瓣)

If the lower bound method of the theory of plasticity is employed, then an admissible stress field or any combination of such stress fields may be selected.

Compatible stress field design of structural concrete

In particular, the webs and flanges of

beams, simple walls, brackets, bracing beams and joints of frames are investigated. In chapter 4 it is shown that this method is suitable for the design of reinforced concrete structures, and the consequence of the choice of the final structural system on the structural behavior is dealt with in detail.

Compatible stress field design of structural concrete

If the lower bound method of the theory of plasticity is employed, then an admissible stress field or any combination of such stress fields may be selected. Since two-dimensional structural elements are statically redundant, it is possible for a particular loading to be in equilibrium with many theoretically an infinite number of stress states.

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These models are then used to design and detail the structural components and connections. The CSFM represents a significant step forward for structural engineering practice, as it allows the efficient checking of all design code provisions, including serviceability, load-deformation and deformation capacity aspects even for concrete members with complex geometry. Citation KAUFMANN, Walter, et al.

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