

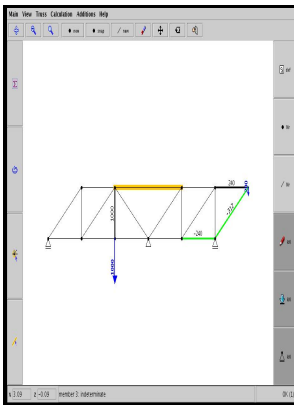
Design of concrete structures with stress fields

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

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Notes: Includes bibliographical references (p. 137-140) and index.
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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.

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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. He is the Chairman of the Swiss Concrete Code Commission and is a Lead Principal Investigator at the Swiss National Centre of Competence in Research NCCR in Digital Fabrication.

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

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. The CSFM represents a significant

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Simple and, above all, clear models in the form of stress fields, consistently based on the theory of plasticity are developed to determine the statical action and the strength. Practical experience as well as fifty years of extensive testing have demonstrated that the theory of plasticity provides a rational, logical, consistent and simple method for investigating the statical behaviour and strength of reinforced and prestressed concrete structures.

Design of concrete structures with stress fields (1997 edition)

The method is based on Finite Element Analysis and uses only basic material parameters employed in standard structural concrete design. In particular, the webs and flanges of beams, simple walls, brackets, bracing beams and joints of frames are investigated. In reality, all structural components are three-dimensional.

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