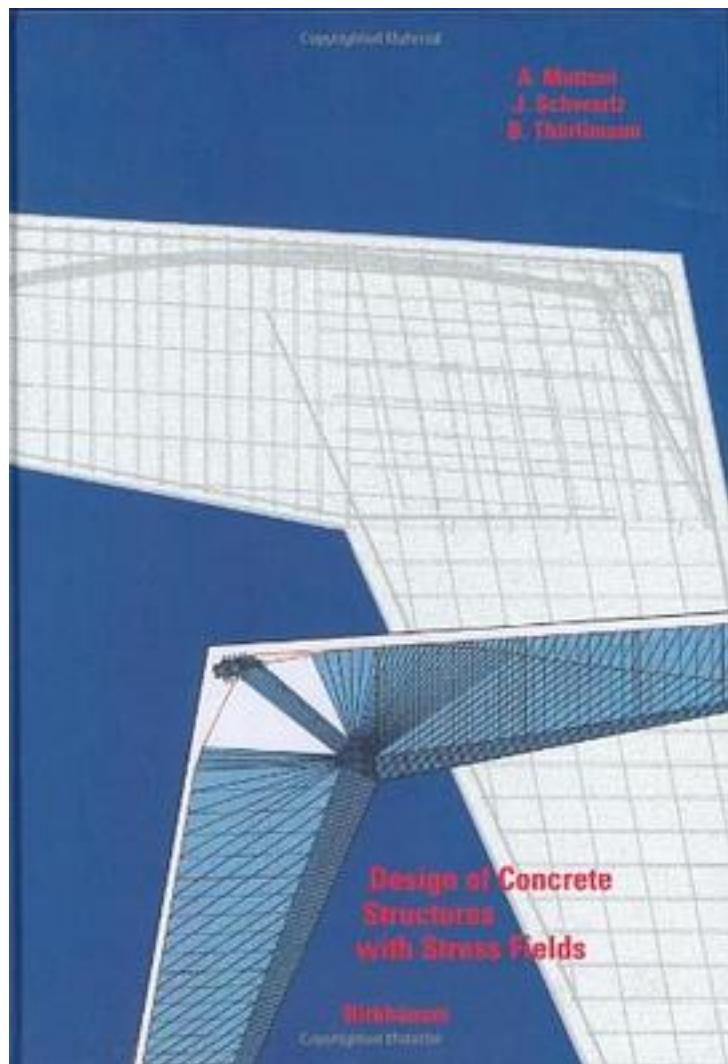


Design of Concrete Structures with Stress Fields



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The book presents a unified approach to the design and detailing of reinforced and prestressed concrete structures. 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. These models are then used to design and detail the structural components and connections. 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. Throughout the text references are made to the pertinent literature. Also available in German

作者介绍:

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标签

结构

结构设计

建筑

建筑设计

Aurello.Muttoni

材料.结构.建造

外文待购

Statics

评论

这本书从来没有过时，struct and tie能够将受力可视化（尽管不一定是最优的，参考拓扑优化结果），GS简化计算。考虑超静定结构产生塑性铰后，应力重分布，承载力进一步提高。又翻了一遍，意犹未尽，力的扩散、收缩，主系统以及子系统的交织，即便被一些有限元软件取代了，这种可视化以及理性的方式仍旧让人称叹

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书评

德文版名称为Bemessung von Betontragwerken mit Spannungsfeldern,出版于1996. 作者均为ETHZ的老师： Muttoni现为EPFL教授，除教学外，与Livio Vacchini等建筑师合作 Schwartz现为ETHZ教授，除教学外，与Christian Kerez, Peter Zumthor等建筑师展开合作; Thürlimann (1923-2...

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