



# Structural Concrete: Theory and Design

*M. Nadim Hassoun, Akthem Al-Manaseer*

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The popular, easily accessible guide to the design of reinforced concrete structures—now updated and revised

Structural Concrete, Fifth Edition provides complete guidance to the analysis and design of reinforced and prestressed concrete structures. This new edition brings all material up to date while maintaining the book's practical, logical, easy-to-follow approach. Coverage includes the latest ACI 318 - 11 code rules, emphasizing the code's strength approach and strain limits. Additional codes, standards, and specifications, as well as material properties and specific loads and safety provisions are also examined in detail.

Drawing on decades of experience in industry and academia, the authors include numerous SI unit examples and design tables along with step-by-step instructions on how to analyze and design for each type of structural member. They clearly explain all key concepts one should know before tackling design formulas, and supplement the discussion with helpful end-of-chapter summaries, references, and problems. New and updated material in this edition includes:

- The application of shear design to beams with variable length in actual structure
- The design of deep beams employing ACI and AASHTO strut-and-tie approach
- The design of stepped-type reinforced concrete stairs, not covered anywhere else
- Seismic design and analysis utilizing the IBC 2012 and ASCE 7-10 code
- The design of curved beams subject to flexure, shear, and torsion
- Prestressed concrete bridge design according to AASHTO specifications
- Examples for predicting shrinkage and creep of concrete in both U.S. and SI units

Structural Concrete, Fifth Edition arms civil and structural engineers with a complete set of tools for designing concrete structures with confidence. It is also an excellent resource for students of civil engineering.

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