

Reinforced Concrete Structures: Analysis and Design, Second Edition

David Fanella

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A fully revised guide to the design and analysis of reinforced concrete structures according to the 2014 edition of ACI 318

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This practical resource offers concise explanations of reinforced concrete design principles and teaches safe and cost-effective engineering and construction techniques. Reinforced Concrete Structures: Analysis and Design, Second Edition, has been thoroughly updated to reflect the latest requirements in both the 2014 ACI 318 structural concrete code and the 2015 International Building Code®. Examples, procedures, and flowcharts illustrate compliance with each provision. This comprehensive guide features new in-depth coverage of ACI earthquake design requirements. SI units are now included throughout all of the chapters.

Reinforced Concrete Structures: Analysis and Design, Second Edition, covers:

Material properties of concrete and reinforcing steel

Considerations for analysis and design

Requirements for strength and serviceability

Principles of the strength design method

Beams, one-way slabs, and two-way slabs

Columns, walls, and foundations

Design and detailing for earthquake effects



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