



Design of Reinforced Concrete

By Jack C. McCormac, Russell H. Brown

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With its accessible approach and streamlined coverage of theory, engineers will quickly learn how to apply the concepts in the eighth edition. The contents have been updated to conform to the 2008 building code of the American Concrete Institute (ACI 318-08). New spreadsheets are included that arm the reader with tools to analyze and design reinforced concrete elements and quickly compare alternative solutions. A new chapter on seismic design explores the issues related to the design of reinforced concrete structures to resist earthquakes. The new materials section also provides engineers with details and examples on how to design shear walls for combined axial load and bending moment.

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Editorial Review

From the Back Cover

Put your knowledge of concrete on a solid footing

Join generations of aspiring engineers by turning to this bestselling text for your introduction to the fundamentals of reinforced concrete design. Updated to conform to the 2008 building code of the American Concrete Institute (ACI 318-08), the *Eighth Edition* of *Design of Reinforced Concrete* gives you a thorough grounding in the field and an up-to-date understanding of the most current developments in codes, tools, and design elements.

With an accessible approach and streamlined coverage of theory, this comprehensive overview of reinforced concrete theory and application explains ACI Code requirements and explores the design of reinforced concrete beams, slabs, columns, footings, retaining walls, bearing walls, prestressed concrete sections, and framework.

Augmenting the celebrated content of its predecessors, this *Eighth Edition*...

- Familiarizes you with to the 2008 building code of the American Concrete Institute (ACI 318-08) and with revisions made by the American Concrete Institute in Building Code Requirements for Structural Concrete (318-05) and Commentary (318R-05)
- Arms you with new spreadsheets and other tools to analyze and design reinforced concrete elements more quickly and to compare alternative solutions
- Guides you in new techniques such as seismic and shear wall design
- Leads you through numerous examples so you fully absorb and apply the principles discussed

About the Author

Jack C. McCormac is a retired Clemson civil engineering professor named by the Engineering News Record as one of the top 125 engineers or architects in the world in the last 125 years for his contributions to education. McCormac has authored or co-authored seven engineering textbooks, with more than half a million copies now in print. His current books have been adopted at more than 500 universities throughout the world. McCormac holds a BS in civil engineering from the Citadel, an MS in civil engineering from Massachusetts Institute of Technology and a Doctor of Letters from Clemson University. Named an Alumni Distinguished Professor, he taught at Clemson for approximately thirty-four years before retiring in 1989. He is included in the International Who's Who in Engineering.

Russell H. Brown chaired the Civil Engineering Department at Clemson University for 17 years and recently retired. He received his BS degree from the University of Houston and his Ph.D. from Rice University. He is former chairman of ASTM Committee C15, former chair of the Flexure and Axial Loads Subcommittee of the Masonry Standards Joint Committee, and Founding Member and Honorary Member of the Masonry Society. He received the John Scalzi Award for his research in structural masonry and twice received ASTM's Alan Yorkdale Award for his research publications.

Users Review

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