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James K. Wight, James G. MacGregor Reinforced Concrete Mechanics and Design, 6th Edition Prentice Hall (2011)

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A multi-tiered approach makes Reinforced Concrete: Mechanics and Design an outstanding textbook for a variety of university courses on reinforced concrete design. Topics are normally introduced at a fundamental level, and then

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move to higher levels where prior educational experience and the development of engineering judgment will be required.

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The focus is on the design of elements in reinforced concrete buildings where the primary reinforcement is steel reinforcing bars or steel wire reinforcement that is not prestressed. To safely and economically design reinforced concrete structures, a thorough understanding of the mechanics of reinforced concrete and the design provisions of current codes is essential.

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Topics covered include: Strength and Deformation of Concrete under Various States of Stress; Failure Criteria; Concrete Plasticity; Fracture Mechanics Concepts; Fundamental Behavior of Reinforced Concrete Structural Systems and their Members; Basis for Design and Code Constraints; High-performance Concrete Materials and their use in Innovative Design Solutions; Slabs: Yield Line Theory; Behavior Models and Nonlinear Analysis; and Complex Systems: Bridge Structures, Concrete Shells, and ...

Mechanics and Design of Concrete Structures | Civil and ...

The Ultimate Load Theory Applied to the Design of Reinforced and Prestressed Concrete Frames. London, England: Concrete Publications, 1956. Bazant, Z. P. Fracture Mechanics of Concrete Structures.

Readings | Mechanics and Design of Concrete Structures ...

HDM Chapter 19 - Reinforced Concrete Box Culverts and Similar Structures. Purpose: The purpose of this chapter is to discuss requirements for designing reinforced concrete culverts and to provide guidance about the information to

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include in the contract documents, where to present the information, and details for cast-in-place culverts.

Chapter 19

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Design of Reinforced Concrete 10th Edition by Jack McCormac and Russell Brown introduces the fundamentals of reinforced concrete design in a clear and comprehensive manner and grounded in the basic principles of mechanics of solids. Students build on their understanding of basic mechanics to learn new concepts such as compressive stress and strain in concrete while applying current ACI Code.

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Because strength design of reinforced concrete masonry is so similar to that of reinforced concrete, the authors felt that this would be a logical extension to the application of the theories developed earlier in the text. The design of masonry lintels,

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walls loaded out-of-plane, and shear walls are included.

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Reinforced Concrete: Mechanics and Design, 6th Edition
James K. Wight, University of Michigan James G.

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Reinforced concrete was a mixture, a composition, an
ingredient, just like Yin and Yang. Strong and soft. Well, in
this case, it's strong and stronger. The author explains the
design theory of reinforced concrete in easy-to-understood
manner so that the readers can appreciate the use of
reinforced concrete better.

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