

# Aci 318 American Concrete Institute

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## ALLIE DUDLEY

Design of Reinforced Concrete American  
Concrete Institute

Publisher Description

*Design of slabs-on-ground* American  
Concrete Institute

This revised, fully updated second edition covers the analysis, design, and construction of reinforced concrete structures from a real-world perspective. It examines different reinforced concrete elements such as slabs, beams, columns, foundations, basement and retaining walls and pre-stressed concrete incorporating the most up-to-date edition of the American Concrete Institute Code (ACI 318-14) requirements for the design of concrete structures. It includes a chapter on metric system in reinforced concrete design and construction. A new chapter on the design of formworks has been added which is of great value to students in the construction engineering programs along with practicing engineers and architects. This second edition also includes a new appendix with color images illustrating various concrete construction practices, and well-designed buildings. The ACI 318-14 constitutes the most extensive reorganization of the code in the past 40 years. References to the various sections of the ACI 318-14 are provided throughout the book to facilitate its use by students and professionals. Aimed at architecture, building construction, and undergraduate engineering students, the scope of concepts in this volume emphasize simplified and practical methods in the analysis and design of reinforced concrete. This is distinct from advanced, graduate engineering texts, where treatment of the subject centers around the theoretical and mathematical aspects of design. As in the first edition, this book adopts a step-by-step approach to solving analysis and

design problems in reinforced concrete. Using a highly graphical and interactive approach in its use of detailed images and self-experimentation exercises, "Concrete Structures, Second Edition," is tailored to the most practical questions and fundamental concepts of design of structures in reinforced concrete. The text stands as an ideal learning resource for civil engineering, building construction, and architecture students as well as a valuable reference for concrete structural design professionals in practice.

**Building Code Requirements for Reinforced Concrete (ACI 318-83) and Commentary--ACI 318R-89** Portland Cement Assn

The quality and testing of materials used in construction are covered by reference to the appropriate ASTM standard specifications. Welding of reinforcement is covered by reference to the appropriate AWS standard. Uses of the Code include adoption by reference in general building codes, and earlier editions have been widely used in this manner. The Code is written in a format that allows such reference without change to its language. Therefore, background details or suggestions for carrying out the requirements or intent of the Code portion cannot be included. The Commentary is provided for this purpose. Some of the considerations of the committee in developing the Code portion are discussed within the Commentary, with emphasis given to the explanation of new or revised provisions. Much of the research data referenced in preparing the Code is cited for the user desiring to study individual questions in greater detail. Other documents that provide suggestions for carrying out the requirements of the Code are also cited.

**Building Code Requirements for Structural Concrete (ACI 318-95) and Commentary (ACI 318R-95)** American Concrete Institute

ACI 318-19 Building Code Requirements

for Structural Concrete (ACI 318-19) and Commentary (ACI 318R-19) Building Code Requirements for Structural Concrete (ACI 318-08) and Commentary American Concrete Institute

Evolution of the American Concrete Institute Building Code Requirements for Structural Concrete (ACI 318) John Wiley & Sons Incorporated

*Specifications for Structural Concrete* Ingram

ACI Standard Building Code Requirements for Reinforced Concrete American Concrete Institute

Building Code Requirements for Reinforced Concrete (ACI 318-63) Springer *Building Code Requirements for Structural Concrete (ACI 318-11M) and Commentary* American Concrete Institute

Commentary on Building Code Requirements for Reinforced Concrete (ACI 318M-83) ACI 318-19 Building Code Requirements for Structural Concrete (ACI 318-19) and Commentary (ACI 318R-19) Building Code Requirements for Structural Concrete (ACI 318-08) and Commentary

**Building Code Requirements for Structural Concrete (ACI 318-05) and Commentary (ACI 318R-05)** (ACI 318-71)

*Commentary on Building Code Requirements for Structural Concrete (ACI 318-63)*

ASTM Standards in ACI 318 Building Code Requirements for Structural Concrete (ACI 318-08) and Commentary *Building Code Requirements for Structural Concrete*

**ACI 318-19 Building Code Requirements for Structural Concrete (ACI 318-19) and Commentary (ACI 318R-19)**

**(ACI 318-14) ; and Commentary (ACI 318R-14)**

Commentary on Building Code Requirements for Reinforced Concrete (ACI 318-71)

*SP-4 (8th) Formwork for Concrete*