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# PRESTRESSED CONCRETE STRUCTURES

MICHAEL P. COLLINS / DENIS MITCHELL

# Prestressed Concrete Structures Collins Mitchell

**R. F. Warner**



## **Prestressed Concrete Structures Collins Mitchell :**

**Prestressed Concrete Structures** Michael P. Collins, Denis Mitchell, 1991      **Prestressed Concrete Structures**, 2001

**Building Code Requirements for Structural Concrete (ACI 318-08) and Commentary** ACI Committee

318, American Concrete Institute, 2008 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      Design of Offshore

Concrete Structures O.T. Gudmestad, 2000-08-03 Written by experienced professionals this book provides a state of the art account of the construction of offshore concrete structures It describes the construction process and includes concept definition project management detailed design and quality assurance simplified analyses and detailed design      **Theory and Design of Bridges** Petros P. Xanthakos, 1994 Indeed this essential working reference for practicing civil engineers uniquely reflects today's gradual transition from allowable stress design to Load and Resistance Factor Design by presenting LRFD specifications developed from research requested by AASHTO and initiated by the NCHRP which spell out new provisions in areas ranging from load models and load factors to bridge substructure elements and foundations      Design of Concrete Structures with Stress Fields Aurelio Muttoni, Joseph Schwartz, Bruno Thürlimann, 1996-12-01 17 2 STRESS FIELDS FOR SIMPLE STRUCTURES 2 1 INTRODUCTION In this chapter the behavior and strength of simple structures made of reinforced or prestressed concrete is investigated with the aid of stress fields In particular the webs and flanges of beams simple walls brackets bracing beams and joints of frames are investigated By this means the majority of design cases are already covered In reality all structural components are three dimensional Here however components are considered either directly as two dimensional plate elements i e the plane stress condition with no variation of stress over the thickness of the element or they are subdivided into several plates Since two dimensional structural elements are statically redundant it is possible for a particular loading to be in equilibrium with many theoretically an infinite number of stress states If the lower bound method of the theory of plasticity is employed then an admissible stress field or any combination of such stress fields may be selected In chapter 4 it is shown that this method is suitable for the design of reinforced concrete structures and the consequence of the choice of the final structural system on the structural behavior is dealt with in detail The first cases of the

use of this method date back to Ritter 6 and Morsch 4 who already at the beginning of the century investigated the resultants of the internal stresses by means of truss models

**Reinforced Concrete Structures: Analysis and Design** David D. E. E. Fanella, 2010-12-06 A PRACTICAL GUIDE TO REINFORCED CONCRETE STRUCTURE ANALYSIS AND DESIGN

Reinforced Concrete Structures explains the underlying principles of reinforced concrete design and covers the analysis design and detailing requirements in the 2008 American Concrete Institute ACI Building Code Requirements for Structural Concrete and Commentary and the 2009 International Code Council ICC International Building Code IBC This authoritative resource discusses reinforced concrete members and provides techniques for sizing the cross section calculating the required amount of reinforcement and detailing the reinforcement Design procedures and flowcharts guide you through code requirements and worked out examples demonstrate the proper application of the design provisions COVERAGE INCLUDES Mechanics of reinforced concrete Material properties of concrete and reinforcing steel Considerations for analysis and design of reinforced concrete structures Requirements for strength and serviceability Principles of the strength design method Design and detailing requirements for beams one way slabs two way slabs columns walls and foundations

*Reinforced Concrete Structures: Analysis and Design, Second Edition* David A. Fanella, 2015-10-06 This comprehensive guide to reinforced concrete structures has been fully revised to cover 2014 updates to the ACI 318 Structural Concrete code Reinforced Concrete Structures Analysis and Design Second Edition offers clear explanations of the underlying principles behind reinforced concrete design and provides easy to follow analysis design and construction techniques This edition has been thoroughly updated to conform to the new ACI 2014 Building Code This authoritative resource discusses reinforced concrete members and provides techniques for sizing the cross section calculating the required amount of reinforcement and detailing the reinforcement Brand new information is included on earthquake design and detailing Easy to follow design procedures and illuminating flowcharts guide you through complex code requirements Concisely explains every provision in the 2014 ACI 318 Structural Concrete code Features a new chapter on design and detailing for earthquake effects Solved problems and real world examples demonstrate each provision s proper application Author has written numerous technical publications on the design of reinforced concrete and load determination Building Code Requirements for Structural

Concrete (ACI 318-05) and Commentary (ACI 318R-05) ACI Committee 318, 2005

**Finite Element Analysis of Reinforced Concrete Structures** Tadaaki Tanabe, 2001

**FRP Composites in Civil Engineering - CICE 2004** R. Seracino, 2004-12-15 The range of fibre reinforced polymer FRP applications in new construction and in the retrofitting of existing civil engineering infrastructure is continuing to grow worldwide Furthermore this progress is being matched by advancing research into all aspects of analysis and design The Second International Conference on FRP Composites in

*Engineering Mechanics* Loren D. Lutes, John M. Niedzwecki, 1992

**Design of Concrete Structures** George Winter, Arthur H. Nilson, 1986 Designed for courses in the design of concrete structures or reinforced concrete design this

text aims to help readers gain a firm understanding of the behaviour of reinforced concrete and a proficiency in the methods used in current design practice Reinforced Concrete Design S. U. Pillai, Marie A. Erki, Donald Wayne Kirk, 1999

**Concrete Design Handbook** Canadian Portland Cement Association, 1985 Bulletin d'information, 1982

**Canadian Journal of Civil Engineering**, 2006 *Concrete Structures* R. F. Warner, 1998 *Concrete Structures* provides an easy to understand integrated and comprehensive treatment of the behaviour analysis and design of reinforced concrete and prestressed concrete structures *Concrete Structures* is the definitive Australia textbook on concrete structures for students and professionals *ACI Structural Journal*, 2009 Conference - Canadian Society for Civil Engineering Canadian Society for Civil Engineering. Conference, 1992

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