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# Reinforced Concrete Macgregor Si Units 4th Edition

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Aggregate, Hot Mix Asphalt, Portland Cement Concrete, Soils, Other Materials  
Building Code Requirements for Structural Concrete (ACI 318-05) and Commentary  
(ACI 318R-05)

Reinforced Concrete

Design of Reinforced Concrete

Design of Reinforced Concrete

Geotechnical Engineering of Dams

Design of Prestressed Concrete

A Publication of the Shock and Vibration Information Center, Naval Research  
Laboratory

The Indian Concrete Journal

Designing and Building with UHPFRC

Reinforced Concrete

Advanced Concrete Technology

Quantification of Building Seismic Performance Factors

A Fundamental Approach

Conforms to 1995 ACI Codes

Solutions Manual

Rapport

Manual of Test Procedures for Materials

Punching Shear in Reinforced Concrete Slabs

Mechanics and Design

Reinforced Concrete with FRP Bars

Reinforced Concrete Design

Design of Highway Bridges

Theory and Design

Development of a Probability Based Load Criterion for American National Standard  
A58

Reinforced Concrete Deep Beams

Mechanics and Design

Introductory Report

Reinforced Concrete Design with FRP Composites

The Reinforced Concrete Design Manual: Anchoring to concrete

Reinforced Concrete

The Shock and Vibration Digest

Design of Reinforced Concrete

Reinforced Concrete Design

An LRFD Approach

Design Code

Building Code Requirements for Structural Concrete (ACI 318-11) and Commentary

CEB-FIP Model Code 1990

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

*Reinforced Concrete  
Macgregor Si Units 4th  
Edition*

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Aggregate, Hot Mix Asphalt, Portland  
Cement Concrete, Soils, Other Materials

John Wiley & Sons

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.

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

Upper Saddle River, N.J. : Prentice Hall  
Complete coverage of earthquake-  
resistant concrete building design  
Written by a renowned seismic  
engineering expert, this authoritative  
resource discusses the theory and  
practice for the design and evaluation of  
earthquake-resisting reinforced concrete  
buildings. The book addresses the  
behavior of reinforced concrete  
materials, components, and systems  
subjected to routine and extreme loads,  
with an emphasis on response to  
earthquake loading. Design methods,  
both at a basic level as required by  
current building codes and at an  
advanced level needed for special  
problems such as seismic performance  
assessment, are described. Data and  
models useful for analyzing reinforced  
concrete structures as well as numerous

illustrations, tables, and equations are  
included in this detailed reference.

Seismic Design of Reinforced Concrete  
Buildings covers: Seismic design and  
performance verification Steel  
reinforcement Concrete Confined  
concrete Axially loaded members  
Moment and axial force Shear in beams,  
columns, and walls Development and  
anchorage Beam-column connections  
Slab-column and slab-wall connections  
Seismic design overview Special  
moment frames Special structural walls  
Gravity framing Diaphragms and  
collectors Foundations

*Reinforced Concrete* Ingram

This text is intended primarily for third-  
or fourth-year Civil Engineering students  
at Canadian universities. It can also be  
used in graduate courses. Thoroughly  
Canadianized, this text provides  
accurate, up-to-date, and  
comprehensive coverage of Canadian  
engineering design and practice. The  
First Canadian Edition of Reinforced  
Concrete has been adapted from the  
U.S. third edition text to reflect the  
Canadian concrete design code:

A23.3-94 Design of Concrete Structures  
issued by the Canadian Standards  
Association. With the exception of the  
CPCA Concrete Design Handbook, this is  
the first Canadian textbook that is  
compatible with the current Canadian  
design code. (The CPCA Handbook, while  
used in many Canadian engineering  
programs, is not considered an adequate  
learning tool for students). In our book,  
the theory and practice of reinforced  
concrete design is explained in a  
systematic and clear fashion--with an  
abundance of step-by-step worked  
examples, illustrations, and diagrams.

The focus is on preparing students to make the many judgement decisions required in reinforced concrete design. Lead author James MacGregor is a renowned authority on reinforced concrete design. He has been a distinguished teacher and a member of various code committees in Canada.

### **Design of Reinforced Concrete**

Scarborough, Ont. : Prentice Hall Canada  
Now reflecting the new 2008 ACI 318-08 Code and the new International Building Code (IBC-2006), this cutting-edge text has been extensively revised to present state-of-the-art developments in reinforced concrete. The text analyzes the design of reinforced concrete members through a unique and practical step-by-step trial and adjustment procedure. It is supplemented with flowcharts that guide readers logically through key features and underlying theory. Hundreds of photos of tests to failure of concrete elements help readers visualize this behavior. Ideal for practicing engineers who need to contend with the new revisions of the ACI, IBC, and AASHTO Codes.

Wiley

Publisher Description

Design of Reinforced Concrete McGraw-Hill Science, Engineering & Mathematics  
The new edition of Reinforced Concrete Design includes the latest technical advances, including the 1995 American Concrete Institute Building Code. Review questions and problem sets at the end of every chapter are identical to those your civil engineering undergraduates will encounter in practice.

Geotechnical Engineering of Dams

American Concrete Institute

Reinforced Concrete Mechanics and Design Upper Saddle River, N.J. : Prentice Hall

*Design of Prestressed Concrete* John

Wiley & Sons

Corrosion-resistant, electromagnetic transparent and lightweight fiber-reinforced polymers (FRPs) are accepted as valid alternatives to steel in concrete reinforcement. Reinforced Concrete with FRP Bars: Mechanics and Design, a technical guide based on the authors' more than 30 years of collective experience, provides principles, algorithms, and practical examples. Well-illustrated with case studies on flexural and column-type members, the book covers internal, non-prestressed FRP reinforcement. It assumes some familiarity with reinforced concrete, and excludes prestressing and near-surface mounted reinforcement applications. The text discusses FRP materials properties, and addresses testing and quality control, durability, and serviceability. It provides a historical overview, and emphasizes the ACI technical literature along with other research worldwide. Includes an explanation of the key physical mechanical properties of FRP bars and their production methods Provides algorithms that govern design and detailing, including a new formulation for the use of FRP bars in columns Offers a justification for the development of strength reduction factors based on reliability considerations Uses a two -story building solved in Mathcad® that can become a template for real projects This book is mainly intended for practitioners and focuses on the fundamentals of performance and design of concrete members with FRP reinforcement and reinforcement detailing. Graduate students and researchers can use it as a valuable resource. Antonio Nanni is a professor at the University of Miami and the University of Naples Federico II. Antonio De Luca and Hany Zadeh are

consultant design engineers.

**A Publication of the Shock and Vibration Information Center, Naval Research Laboratory** CRC Press

This report describes a recommended methodology for reliably quantifying building system performance and response parameters for use in seismic design. The recommended methodology (referred to herein as the Methodology) provides a rational basis for establishing global seismic performance factors (SPFs), including the response modification coefficient (R factor), the system overstrength factor, and deflection amplification factor (Cd), of new seismic-force-resisting systems proposed for inclusion in model building codes. The purpose of this Methodology is to provide a rational basis for determining building seismic performance factors that, when properly implemented in the seismic design process, will result in equivalent safety against collapse in an earthquake, comparable to the inherent safety against collapse intended by current seismic codes, for buildings with different seismic-force-resisting systems. *The Indian Concrete Journal* Longman Publishing Group

The theory of reinforced concrete design is presented as a direct application of the laws of statics and behavior of reinforced concrete. This book emphasizes that a successful design must not only satisfy the design equations, but practical construction aspects as well. Covering basic undergraduate level concepts and more advanced topics, this book includes detailed treatments of flexure, shear, development and columns at a level suitable for undergraduate use, as well as the more difficult areas of strain compatibility solutions of beams, P-

(Delta) analyses of frames, strut-and-tie models, and design for earthquake resistance. The numerous examples are all worked out completely, step-by-step.

**Designing and Building with**

**UHPFRC** American Concrete Institute  
Up-to-date coverage of bridge design and analysis—revised to reflect the fifth edition of the AASHTO LRFD specifications  
**Design of Highway Bridges, Third Edition** offers detailed coverage of engineering basics for the design of short- and medium-span bridges. Revised to conform with the latest fifth edition of the American Association of State Highway and Transportation Officials (AASHTO) LRFD Bridge Design Specifications, it is an excellent engineering resource for both professionals and students. This updated edition has been reorganized throughout, spreading the material into twenty shorter, more focused chapters that make information even easier to find and navigate. It also features:  
Expanded coverage of computer modeling, calibration of service limit states, rigid method system analysis, and concrete shear  
Information on key bridge types, selection principles, and aesthetic issues  
Dozens of worked problems that allow techniques to be applied to real-world problems and design specifications  
A new color insert of bridge photographs, including examples of historical and aesthetic significance  
New coverage of the "green" aspects of recycled steel  
Selected references for further study  
From gaining a quick familiarity with the AASHTO LRFD specifications to seeking broader guidance on highway bridge design—**Design of Highway Bridges** is the one-stop, ready reference that puts information at your fingertips, while also serving as an excellent study

guide and reference for the U.S. Professional Engineering Examination.

Reinforced Concrete John Wiley & Sons

Over the past two decades concrete has enjoyed a renewed level of research and testing, resulting in the development of many new types of concrete. Through the use of various additives, production techniques and chemical processes, there is now a great degree of control over the properties of specific concretes for a wide range of applications. New theories, models and testing techniques have also been developed to push the envelope of concrete as a building material. There is no current textbook which brings all of these advancements together in a single volume. This book aims to bridge the gap between the traditional concrete technologies and the emerging state-of-the-art technologies which are gaining wider use.

**Advanced Concrete Technology**

Prentice Hall

The contents of this book have been chosen with the following main aims: to review the present coverage of the major design codes and the CIRIA guide, and to explain the fundamental behaviour of deep beams; to provide information on design topics which are inadequately covered by the current codes and design manuals; and to give authoritative review

Quantification of Building Seismic Performance Factors Wiley

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. *A Fundamental Approach* John Wiley & Sons

Geotechnical Engineering of Dams, 2nd edition provides a comprehensive text on the geotechnical and geological aspects of the investigations for and the design and construction of new dams and the review and assessment of existing dams. The main emphasis of this work is on embankment dams, but much of the text, particularly those parts related to g

*Conforms to 1995 ACI Codes* Pearson

With this bestselling book, readers will quickly gain a better understanding of the fundamentals of reinforced concrete design. The author presents a thorough introduction to the field, covering such areas as theories, ACI Code requirements, and the design of reinforced concrete beams, slabs, columns, footings, retaining walls, bearing walls, prestressed concrete sections, and framework. Numerous examples are also integrated throughout the chapters to help reinforce the principles that are discussed.

Solutions Manual CRC Press

This design code for concrete structures is the result of a complete revision to the former Model Code 1978, which was produced jointly by CEB and FIP. The 1978 Model Code has had a considerable impact on the national design codes in many countries. In particular, it has been used extensively for the harmonisation of national design codes and as basic reference for Eurocode 2. The 1990 Model Code provides comprehensive guidance to the scientific and technical developments that have occurred over the past decade in the safety, analysis and design of concrete structures. It has already influenced the codification work that is being carried out both nationally and internationally and will continue so to do.

**Rapport** CRC Press

This book contains the proceedings of the international workshop "Designing and Building with Ultra-High Performance Fibre-Reinforced Concrete (UHPFRC): State of the Art and Development", organized by AFGC, the French Association for Civil Engineering and French branch of fib, in Marseille (France), November 17-18, 2009. This workshop was focused on the experience of a lot of recent UHPFRC realizations. Through more than 50 papers, this book details the experience of many countries in UHPFRC construction and design, including projects from Japan, Germany, Australia, Austria, USA, Denmark, the Netherlands, Canada... and France. The projects are categorized as novel

architectural solutions, new frontiers for bridges, new equipments and structural components, and extending the service life of structures. The last part presents major research results, durability and sustainability aspects, and the updated AFGC Recommendations on UHPFRC.

**Manual of Test Procedures for Materials** CRC Press

Although the use of composites has increased in many industrial, commercial, medical, and defense applications, there is a lack of technical literature that examines composites in conjunction with concrete construction. Fulfilling the need for a comprehensive, explicit guide, Reinforced Concrete Design with FRP Composites presents specific information

*Punching Shear in Reinforced Concrete Slabs* John Wiley & Sons Incorporated

The sixth edition of this comprehensive textbook provides the same philosophical approach that has gained wide acceptance since the first edition was published in 1965. The strength and behavior of concrete elements are treated with the primary objective of explaining and justifying the rules and formulas of the ACI Building Code. The treatment is incorporated into the chapters in such a way that the reader may study the concepts in a logical sequence in detail or merely accept a qualitative explanation and proceed directly to the design process using the ACI Code.