



## Reinforced Concrete Fundamentals, 5th Edition

Phil M. Ferguson, John E. Breen, James O. Jirsa

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### DESCRIPTION

This Fifth Edition maintains the basic Ferguson approach in which design procedures stem from and provide the basis for a clear understanding of the behavior of reinforced concrete. Behavior of reinforced concrete members and assemblages at every load stage is illustrated with illustrations and photos, and calculation models that relate to the physical behaviors are provided to help students and practitioners recognize and assess various design situations. To avoid confusion, many of the examples now use customary or English units, rather than SI units as in the Fourth Edition. This edition conforms to the technical changes in the '83 and '86 revisions to the ACI Building Code. In this edition, service load analysis of stresses, computations of deflection and distribution of reinforcement to control crack widths have been incorporated with the sections that treat analysis and design of flexural members. Material relating to seismic design has been revised and expanded, and more emphasis has been placed on developing conceptual models for design.

### ABOUT THE AUTHOR

About the authors: The late Phil M. Ferguson was The T. U. Taylor Professor of Civil Engineering at the University of Texas at Austin. He was the sole author of the previous four editions of Reinforced Concrete Fundamentals. John E. Breen holds the Nasser I. Al-Rashid Chair in Civil Engineering at the University of Texas at Austin, where he was Director of the Phil M. Ferguson Structural Engineering Laboratory from 1967-85. He received his PhD at the same institution in 1962. James O. Jirsa is The Phil

# Reinforced Concrete Fundamentals

**Phil Moss Ferguson, Henry Jacob  
Cowan**



## **Reinforced Concrete Fundamentals:**

**Fundamentals of Durable Reinforced Concrete** Mark G. Richardson, 2003-09-02 Durability failures in reinforced concrete structures are wasteful of resources and energy The introduction to practice of European Standard EN 206 1 represents a significant shift in emphasis on the need to explicitly consider each potential durability threat when specifying and producing concrete Fundamentals of Durable Reinforced Concrete presents the fundamental aspects of concrete durability including reinforcement corrosion carbonation chloride ingress alkali aggregate reaction freeze thaw damage sulphate attack chemical attack cracking abrasion and weathering The background to the durability exposure classes in EN 206 1 is also explained Future directions in performance based specifications and mathematical modelling of degradation are presented This book will be of particular interest to specifiers applying the principles of the new European Standard EN 206 1 for the first time to postgraduate researchers in mathematical modelling of degradation mechanisms to undergraduates of engineering architecture and building technology and students of advanced concrete technology who require a concise source of reference on concrete durability **Reinforced Concrete Fundamentals** Phil Moss Ferguson, 1979

**Reinforced Concrete Fundamentals, S I Version** Phil Moss Ferguson, Henry Jacob Cowan, 1981 FUNDAMENTALS OF REINFORCED CONCRETE DESIGN GAMBHIR, M. L., 2006-10-07 Designed primarily as a text for undergraduate students of Civil Engineering for their first course on Limit State Design of Reinforced Concrete this compact and well organized text covers all the fundamental concepts in a highly readable style The text conforms to the provision of the latest revision of Indian Code of Practice for Plain and Reinforced Concrete IS 456 2000 First six chapters deal with fundamentals of limit states design of reinforced concrete The objective of last two chapters including design aids in appendix is to initiate the readers in practical design of concrete structures The text gives detailed discussion of basic concepts behaviour of the various structural components under loads and development of fundamental expressions for analysis and design It also presents efficient and systematic procedures for solving design problems In addition to the discussion of basis for design calculations a large number of worked out practical design examples based on the current design practices have been included to illustrate the basic principles of reinforced concrete design Besides students practising engineers would find this text extremely useful **Fundamentals of High-Performance Concrete** Edward G. Nawy, 2000-11-16 High performance

concrete is a key element in virtually all large construction projects from tall office and residential buildings to bridges tunnels and roadways The fully updated Second Edition helps professionals to understand the performance capabilities of these construction materials when selecting the type of concrete to use for particular projects The author is one of the worlds acknowledged experts on high performance concrete **Steel Corrosion in Concrete** Arnon Bentur, Neal Berke, Sidney Diamond, 1997-10-09 Poor durability of concrete is a major cause of problems in modern building and civil engineering structures in all countries the annual cost of investigating and repairing deteriorating reinforced concrete structures runs

into many millions of pounds This book explains the fundamentals of the corrosion of steel in concrete It is comprehensive and provides a basis for the practising engineer to design concrete structures which avoid the problem using modern concepts and specifications A limited discussion of corrosion measurement and repairs is also provided

**Fundamentals of Durable Reinforced Concrete** Mark G. Richardson, 2002-05-23 Durability failures in reinforced concrete structures are wasteful of resources and energy The introduction to practice of European Standard EN 206 1 represents a significant shift in emphasis on the need to explicitly consider each potential durability threat when specifying and producing concrete

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**Textile Reinforced Concrete** Alva Peled, Arnon Bentur, Barzin Mobasher, 2017-08-07 Textile reinforced concrete TRC has emerged in recent years as an attractive new high performance cement based composite Textiles can significantly improve the mechanical behavior of cement matrices under static and dynamic conditions and give superior tensile strength toughness ductility energy absorption and protection against environmental degrading influences Flexibility with fabric production methods enables the control of fabric and yarn geometry This along with the ability to incorporate into the fabric a range of yarns of different types and performances as well as cement matrix modifications enables design of the composite to a wide range of needs The book is intended to provide a comprehensive treatment of TRC covering the basic fundamentals of the composite material itself and the principles governing its performance on a macro scale as a component in a structure It provides in depth treatment of the fabric methods for production of the composite the micro mechanics with special attention to the role of bonding and microstructure behavior under static and dynamic loading sustainability design and the applications of TRC composites

Corrosion in Reinforced Concrete Structures H Böhni, 2005-01-20 Reinforced concrete has the potential to be very durable and capable of withstanding a variety of adverse environmental conditions However failures in the structures do still occur as a result of premature reinforcement corrosion In this authoritative book the fundamental aspects of this complex process are analysed focusing on corrosion of the reinforcing steel and looking particularly at new scientific and technological developments Monitoring techniques including the newly developed online monitoring are examined as well as the numerical methods used to simulate corrosion and perform parameter studies The influence of composition and microstructure of concrete on corrosion behaviour is explored The second half of the book which deals with corrosion prevention methods starts with a discussion on stainless steels as reinforcement materials There are comprehensive reviews of the use of surface treatments and coatings of the application of corrosion inhibitors and of the application of electrochemical techniques In each case the necessary scientific fundamentals are explained and practical instances of use are looked at This is an invaluable guide for engineers materials scientists and researchers in the field of structural concrete

Fundamental aspects of corrosion in concrete are analysed in detail Explores how to minimise the effects of corrosion in concrete Invaluable guide for engineers materials scientists and researchers in the field of structural concrete

**Reinforced Concrete Fundamentals with Emphasis on Ultimate Strength** Phil Moss Ferguson, 1965 **FRP**

**Composites for Reinforced and Prestressed Concrete Structures** Perumalsamy Balaguru, Antonio Nanni, James Giancaspro, 2008-11-05 This book provides practical guidance and accessible coverage of FRP composites including step by step guidelines Its principle theme is the repair and retrofit of concrete structures with carbon glass and fibre composite reinforcement Useful to graduates advanced undergraduates and researchers *Basic Principles of Concrete Structures* Xianglin Gu, Xianyu Jin, Yong Zhou, 2015-12-09 Based on the latest version of designing codes both for buildings and bridges GB50010 2010 and JTG D62 2004 this book starts from steel and concrete materials whose properties are very important to the mechanical behavior of concrete structural members Step by step analysis of reinforced and prestressed concrete members under basic loading types tension compression flexure shearing and torsion and environmental actions are introduced The characteristic of the book that distinguishes it from other textbooks on concrete structures is that more emphasis has been laid on the basic theories of reinforced concrete and the application of the basic theories in design of new structures and analysis of existing structures Examples and problems in each chapter are carefully designed to cover every important knowledge point As a basic course for undergraduates majoring in civil engineering this course is different from either the previously learnt mechanics courses or the design courses to be learnt Compared with mechanics courses the basic theories of reinforced concrete structures cannot be solely derived by theoretical analysis And compared with design courses this course emphasizes the introduction of basic theories rather than simply being a translation of design specifications The book will focus on both the theoretical derivations and the engineering practices *Reinforced Concrete Fundamentals* Phil M. Ferguson, James Otis Jirsa, John Edward Breen, 1988-01-01 Through four editions Phil M Ferguson s Reinforced Concrete Fundamentals has become a recognized classic known for its clarity and thoroughness There is in fact no other reinforced concrete text available as useful for both beginners and experienced designers Now a fifth edition reflecting the 1983 and 1986 ACI Code revisions brings Reinforced Concrete Fundamentals completely up to date while retaining Ferguson s popular approach Changes include a return for most examples to the use of English units to reflect current practice reorganization of material for greater clarity revision and expansion of seismic design related topics and an emphasis on conceptual models for design There are entirely new chapters on design and detailing in the central joint regions and on shear wall design In addition substantial revisions have been made in the basic approach to the design of slender columns in order to emphasize the secondary deflection patterns and in the treatment of splices reinforcement development and hooks in order to reflect the basic behavior and failure patterns rather than just arbitrary code rules The coverage of seismic design interaction curves for eccentrically loaded columns and direct design procedures for two way slabs has been revised as well As in previous editions Reinforced Concrete Fundamentals imparts a clear understanding of the behavior of reinforced concrete members and assemblages with an emphasis on the flow of the design process

Throughout behavior at all load stages is illustrated by figures and photos A set of working appendices delivers a summary treatment of service load analysis for flexure and design tables and curves Maintaining the high standards of its popular predecessors Reinforced Concrete Fundamentals Fifth Edition makes up an ideal reference refresher and desktop resource for civil engineers needing a clear modern approach to concrete design *WIE Reinforced Concrete Fundamentals* Phil Moss Ferguson, John Edward Breen, James O. Jirsa, 1988 This fifth edition maintains the basic Ferguson approach in which design procedures stem from and provide the basis for a clear understanding of the behaviour of reinforced concrete

**ADVANCED REINFORCED CONCRETE DESIGN** P. C. VARGHESE, 2009-01-09 Intended as a companion volume to the author's Limit State Design of Reinforced Concrete published by Prentice Hall of India the Second Edition of this comprehensive and systematically organized text builds on the strength of the first edition continuing to provide a clear and masterly exposition of the fundamentals of the theory of concrete design The text meets the twin objective of catering to the needs of the postgraduate students of Civil Engineering and the needs of the practising civil engineers as it focuses also on the practices followed by the industry This text along with Limit State Design covers the entire design practice of revised Code IS456 2000 In addition it analyzes the procedures specified in many other BIS codes such as those on winds earthquakes and ductile detailing What's New to This Edition Chapter 18 on Earthquake Forces and Structural Response of framed buildings has been completely revised and updated so as to conform to the latest I S Codes 1893 2002 entitled Criteria for Earthquake Resistant Design of Structures Part I Fifth Revision Chapters 19 and 21 which too deal with earthquake design have been revised A Summary of elementary design of reinforced concrete members is added as Appendix Valuable tables and charts are presented to help students and practising designers to arrive at a speedy estimate of the steel requirements in slabs beams columns and footings of ordinary buildings **Acoustic Emission and Related**

**Non-destructive Evaluation Techniques in the Fracture Mechanics of Concrete** Masayasu Ohtsu, 2015-03-28 The development of NDT non destructive testing techniques used for the inspection of concrete structures is currently in high demand because many existing structures have become aged and deteriorated in service In order to formulate predictions on their stability and to estimate their safety it is necessary to identify damage signals and to determine their causes In this regard the development and establishment of innovative and highly advanced non destructive methods are required Acoustic Emission AE and related NDE non destructive evaluation techniques have been extensively used to determine crack detection and damage evaluation in concrete With the move towards a more sustainable society and the need to extend the long term service life of infrastructure and aging and disastrous damage due to recent earthquakes Acoustic Emission AE and Related Non destructive Evaluation NDE Techniques in the Fracture Mechanics of Concrete Fundamentals and Applications is a critical reference source for civil engineers contractors working in construction and materials scientists working both in industry and academia Presents innovative Acoustic Emission AE and related non destructive evaluation NDE techniques

used for damage detection and inspection of aged and deteriorated concrete structures Contributions from recognized world leaders in the application of acoustic emission AE and NDE techniques used for the damage assessment of concrete and concrete structures With the move towards a more sustainable society and the need to extend the long term service life of infrastructure and damage due to recent earthquakes this book is of critical importance An essential knowledge resource for civil engineers contractors working in construction and materials scientists working both in industry and academia

**Reinforced Concrete** Edward G. Nawy, 2005 Now updated to reflect the latest ACI 318 05 Building Code this cutting edge book analyzes the design of reinforced concrete members through a unique and practical step by step trial and adjustment procedure Supplements narrative with flow charts to guide readers logically through the learning process Provides ample photographs of instructional testing of concrete members to decrease the need for actual laboratory testing Uses Strain Limits Design Method in all design examples as mandated in the new code using the new load factors and strength reduction factors Updates chapter on seismic design of buildings to comply with the major changes to the ACI 318 Code and the new International Building Code provisions on seismic design Adds chapter on the LRFD design of bridge deck structures in accordance with AASHTP 2002 including a summary of the various pertinent load and design provisions and equations Offers an expanded section on the strut and tie modeling for the design of reinforced concrete deep beams A useful construction reference for engineers

**Compendium of Reinforced Concrete; Fundamentals - Formulae - Tables - Examples** G Siacchi, S Crookes, 2015-12-05 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

**REINFORCED CONCRETE FUNDAMENTALS WITH EMPHASIS**, 1965 **Structural Concrete** M. Nadim Hassoun, Akthem Al-Manaseer, 2012-06-14 The popular easily accessible guide to the design of reinforced concrete structures now updated and revised Structural Concrete Fifth Edition provides complete guidance to the analysis and design of reinforced and prestressed concrete structures This new edition brings all material up to date while maintaining the book's practical logical easy to follow approach Coverage includes the latest ACI 318 11 code rules emphasizing the code's strength approach and strain limits Additional codes standards and specifications as well as material properties and specific

loads and safety provisions are also examined in detail Drawing on decades of experience in industry and academia the authors include numerous SI unit examples and design tables along with step by step instructions on how to analyze and design for each type of structural member They clearly explain all key concepts one should know before tackling design formulas and supplement the discussion with helpful end of chapter summaries references and problems New and updated material in this edition includes The application of shear design to beams with variable length in actual structure The design of deep beams employing ACI and AASHTO strut and tie approach The design of stepped type reinforced concrete stairs not covered anywhere else Seismic design and analysis utilizing the IBC 2012 and ASCE 7 10 code The design of curved beams subject to flexure shear and torsion Prestressed concrete bridge design according to AASHTO specifications Examples for predicting shrinkage and creep of concrete in both U S and SI units Structural Concrete Fifth Edition arms civil and structural engineers with a complete set of tools for designing concrete structures with confidence It is also an excellent resource for students of civil engineering



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