



**SEISMIC DESIGN OF  
REINFORCED AND PRECAST  
CONCRETE  
BUILDINGS**

ROBERT E. ENGLEKIRK

# Seismic Design Of Reinforced And Precast Concrete Buildings

**fib Fédération internationale du béton**

A red circular graphic element, resembling a stylized sun or a lens flare, is positioned to the right of the fib logo bar.

## **Seismic Design Of Reinforced And Precast Concrete Buildings:**

**Seismic Design of Reinforced and Precast Concrete Buildings** Robert E. Englekirk, 2003-03-10 Presents the basics of seismic resistant design of concrete structures Provides a major focus on the seismic design of precast bracing systems

*Seismic Design of Reinforced and Precast Concrete Buildings* Englekirk, P. C. Jordan, 2003-02-01      **Seismic Design of Precast Concrete Building Structures** fib Fédération internationale du béton, 2003-01-01 The aim of this state of art report is to present current practices for use of precast and prestressed concrete in countries in seismic regions to recommend good practice and to discuss current developments The report has been drafted by 30 contributors from nine different countries This state of art report covers state of the practice in various countries advantages and disadvantages of incorporating precast reinforced and prestressed concrete in construction lessons learned from previous earthquakes construction concepts design approaches primary lateral load resisting systems precast and prestressed concrete frame systems and structural walls including dual systems diaphragms of precast and prestressed concrete floor units modelling and analytical methods gravity load resisting systems foundations and miscellaneous elements shells folded plates stairs and architectural cladding panels Design equations are reported where necessary but the emphasis is on principles Ordinary cast in place reinforced concrete is not considered in this report This fib state of the art report is intended to assist designers and constructors to provide safe and economical applications of structural precast concrete and at the same time to allow innovation in design and construction to continue This Bulletin N 27 was approved as an fib state of art report in autumn 2002 by fib Commission 7 Seismic design      *Design of Connections for Precast Prestressed Concrete Buildings for the Effects of Earthquake* D. P. Clough, 1986      Precast-concrete buildings in seismic areas FIB - Féd. Int. du Béton, 2016 This document has a broad scope and is not focussed on design issues Precast construction under seismic conditions is treated as a whole The main principles of seismic design of different structural systems their behavior and their construction techniques are presented through rules construction steps and sequences procedures and details that should lead to precast structures built in seismic areas complying with the fundamental performance requirements of collapse prevention and life safety in major earthquakes and limited damage in more frequent earthquakes The content of this document is largely limited to conventional precast construction and although some information is provided on the well known PRESSS technology jointed ductile dry connections this latter solution is not treated in detail in this document The general overview contained in this document of alternative structural systems and connection solutions available to achieve desired performance levels intends to provide engineers architects clients and end users in general with a better appreciation of the wide range of applications that modern precast concrete technology can have in various types of construction from industrial to commercial as well as residential Lastly the emphasis on practical aspects from conceptual design to connection detailing aims to help engineers to move away from the habit of blindly following prescriptive codes in their design but instead go back to basic principles in

order to achieve a more robust understanding and thus control of the seismic behaviour of the structural system as a whole as well as of its components and individual connections

**Displacement-based Seismic Design of Reinforced Concrete Buildings** fib Fédération internationale du béton, 2003

A brief summary of the history of seismic design as given in chapter 1 indicates that initially design was purely based on strength or force considerations. When the importance of displacement however became better appreciated it was attempted to modify the existing force based approach in order to include considerations of displacement rather than to totally reconsider the procedure on a more rational basis. In the last decade then several researchers started pointing out this inconsistency proposing displacement based approaches for earthquake engineering evaluation and design with the aim of providing improved reliability in the engineering process by more directly relating computed response and expected structural performance. The main objective of this report is to summarize critically review and compare the displacement based approaches proposed in the literature thus favouring code implementation and practical use of rational and reliable methods.

Chapter 2 Seismic performance and design objectives of this report introduces concepts of performance levels seismic hazard representation and the coupling of performance and hazard to define performance objectives. In fact for displacement analysis to be relevant in the context of performance based design the structural engineer must select appropriate performance levels and seismic loadings. A critical review of some engineering limit states appropriate to the different performance levels is therefore proposed. In chapter 3 Conceptual basis for displacement based earthquake resistant design the fundamental principles associated with displacement of the ground during an earthquake and the effects in terms of displacement in the structure are reviewed. The historical development guides the presentation with a review of general linear and nonlinear structural dynamics principles general approaches to estimate displacement for both ground and structure and finally a general presentation of the means to measure and judge the appropriateness of the displacements of the structure in section.

Chapter 4 Approaches and procedures for displacement based design can be somehow considered the fundamental part of the report since a critical summary of the displacement based approaches proposed by different researchers is presented there. Displacement based design may require specific characterization of the input ground motion a topic addressed in Chapter 5 Seismic input. In general various pertinent definitions of input motion for non code format analysis are included while peak ground parameters necessary for code base shear equations are only addressed as needed for the definition of motion for analysis.

Chapter 6 Displacement capacity of members and systems addresses the fundamental problem of evaluating the inelastic displacement capacity of reinforced concrete members and realistic values of their effective cracked stiffness at yielding including effects of shear and inclined cracking anchorage slip bar buckling and of load cycling. In Chapter 7 Application and evaluation of displacement based approaches some of the many different displacement based design procedures briefly introduced in Chapter 4 are applied to various case studies identifying and discussing the difficulties a designer may encounter when trying to use displacement

based design Results for five different case studies designed in accordance with eight different displacement based design methods are presented Although in general case studies are considered a useful but marginal part of a state of the art document in this case it has to be noted that chapter 7 is possibly the most innovative and fundamental part of the whole report The conclusions of chapter 7 are the fundamental and essential conclusions of the document and allow foreseeing a bright future for displacement based design approaches The state of art report has been elaborated over a period of 4 years by Task Group 7 2 Displacement based design and assessment of fib Commission 7 Seismic design a truly international team of experts representing the expertise and experience of all the important seismic regions of the world In October 2002 the final draft of the Bulletin was presented to the public during the 1st fib Congress in Osaka It was also there that it was approved by fib Commission 7 Seismic Design

**Seismic Design of Reinforced Concrete Buildings** Jack Moehle, 2014-10-06 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

**Guide to Emulating Cast-in-Place Detailing for Seismic Design of Precast Concrete Structures** Joint ACI-ASCE Committee 550, American Concrete Institute, 2009 This guide provides information for detailing precast concrete structures that should meet building code requirements for all seismic design categories by emulating cast in place reinforced concrete design This guide also explains how emulative precast concrete structures can address the provisions of ACI 318 08 including those of Chapter 21 if special attention is directed to detailing the joints and splices between precast components

**Design of Reinforced Concrete Buildings for Seismic Performance** Mark Aschheim, Enrique Hernández-Montes, Dimitrios Vamvatsikos, 2019-04-05 The costs of inadequate earthquake engineering are huge especially for reinforced concrete buildings This book presents the principles of earthquake resistant structural engineering and uses the latest tools and techniques to give practical design guidance to address single or multiple seismic performance levels It presents an elegant simple and theoretically coherent design framework Required strength is determined on the basis of an estimated yield displacement and desired limits of system

ductility and drift demands A simple deterministic approach is presented along with its elaboration into a probabilistic treatment that allows for design to limit annual probabilities of failure The design method allows the seismic force resisting system to be designed on the basis of elastic analysis results while nonlinear analysis is used for performance verification Detailing requirements of ACI 318 and Eurocode 8 are presented Students will benefit from the coverage of seismology structural dynamics reinforced concrete and capacity design approaches which allows the book to be used as a foundation text in earthquake engineering **Concrete Buildings in Seismic Regions** George G. Penelis, Gregory G.

Penelis, 2014-03-24 Bearing in mind that reinforced concrete is a key component in a majority of built environment structures Concrete Buildings in Seismic Regions combines the scientific knowledge of earthquake engineering with a focus on the design of reinforced concrete buildings in seismic regions This book addresses practical design issues providing an integrated comprehensible and clear presentation that is suitable for design practice It combines current approaches to seismic analysis and design with a particular focus on reinforced concrete structures and includes an overview of structural dynamics analysis and design of new R C buildings in seismic regions post earthquake damage evaluation pre earthquake assessment of buildings and retrofitting procedures seismic risk management of R C buildings within urban nuclei extended numerical example applications Concrete Buildings in Seismic Regions determines guidelines for the proper structural system for many types of buildings explores recent developments and covers the last two decades of analysis design and earthquake engineering Divided into three parts the book specifically addresses seismic demand issues and the basic issues of structural dynamics considers the capacity of structural systems to withstand seismic effects in terms of strength and deformation and highlights existing R C buildings under seismic action All of the book material has been adjusted to fit a modern seismic code and offers in depth knowledge of the background upon which the code rules are based It complies with the last edition of European Codes of Practice for R C buildings in seismic regions and includes references to the American Standards in effect for seismic design **Seismic Design of Reinforced Concrete and Masonry Buildings** Thomas

Paulay, M. J. N. Priestley, 1992-04-10 Emphasizes actual structural design not analysis of multistory buildings for seismic resistance Strong emphasis is placed on specific detailing requirements for construction Fundamental design principles are presented to create buildings that respond to a wide range of potential seismic forces which are illustrated by numerous detailed examples The discussion includes the design of reinforced concrete ductile frames structural walls dual systems reinforced masonry structures buildings with restricted ductility and foundation walls In addition to the examples full design calculations are given for three prototype structures **Seismic Design for Existing Structures**, 1986 Durability of Post-tensioning Tendons fib Fédération internationale du béton, 2006 The durability of post tensioning tendons depends undoubtedly on the durability of the materials used but there are design concept specifics which are also of major importance the post tensioning layout and layers of protection such as concrete cover and selected materials in view of the aggressivity

of the environment for instance It is well known that sustainability principles guide the Engineer from the very beginning at the project conception during construction and the service life of a structure Decisions made during conceptual and design stage have the largest influence on the durability and sustainability of post tensioning tendons fib Bulletin 33 addresses the specifics for prestressed concrete structures the durability of post tensioning tendons It should be noted that it does not repeat topics that have been addressed in other fib bulletins and which is common for both reinforced concrete and prestressed concrete structures Pre tensioning which is used extensively in the precast industry is not considered here although conclusions and recommendations herein may in many cases also be applicable This recommendation was prepared by Working Party 5.4.2 Durability specifics for prestressed concrete structures in cooperation with fib Commission 9 Reinforcing and prestressing materials and systems A preliminary version of this recommendation served as the basic document for the second workshop on Durability of post tensioning tendons held on 11-12 October 2004 in Zurich This workshop was a follow up to the first workshop held in Ghent in 2001 Bulletin 33 includes revisions corresponding to the agreed results of the Zurich workshop

*Polymer-duct systems for internal bonded post-tensioning* fib Fédération internationale du béton, 2014-12-01 The purpose of this recommendation fib Bulletin 75 Polymer duct systems for internal bonded post tensioning is to update and amend fib Bulletin 7 Corrugated plastic ducts for internal bonded post tensioning a technical report published in 2000 fib Bulletin 75 is meant as a cornerstone for the technical approval of polymer plastic ducts for internal bonded post tensioning and possibly for the test procedures of a future testing standard The updated bulletin includes new information on the design and detailing of concrete structures containing tendons with polymer ducts The recommendation provides detailed test specifications for polymer materials duct components and duct systems In addition the report contains recommendations for approval testing and attestations of conformity for polymer duct systems Although the new generation of corrugated polymer ducts for bonded post tensioning have now been around for approximately twenty years products still differ in material properties geometrical detail installation procedures and on site use Unlike corrugated steel ducts or smooth polyethylene PE pipes they have not yet become standardized It is the opinion of fib Task Group 9.16 and Commission 9 that these plastic ducts should therefore still be subjected to a systems approval process This recommendation offers information acquired from twenty years of experience as well as new specifications that will hopefully lead to the standardization of polymer duct systems

**Acceptance of Stay Cable Systems Using Prestressing Steels** fib Fédération internationale du béton, 2005-01-01 This fib Recommendation gives technical guidelines regarding design testing acceptance installation qualification inspection and maintenance of stay cable systems using prestressing steels strands wires or bars as tensile elements which can be applied internationally This Recommendation is applicable for cable stayed bridges and other suspended structures such as roofs It may also be used for hangers in arch structures and as suspension cables as appropriate This Recommendations has been formulated by an international working

group comprising more than 20 experts from administrative authorities universities laboratories owners structural designers suppliers of prestressing steels and stay cable suppliers The text has been written to cover best construction practices around the world and to provide material specifications that are considered to be the most advanced available at the time of preparing this text For ease of use for client designer and cable supplier the complex content has been arranged thematically according to the system components into chapters focusing on performance characteristics requirements and acceptance criteria Requirements and comments have been specified for all parties involved in design and construction in order to aim for a uniform and high quality and durability The interfaces to the structural designer are highlighted The essential subjects are Design and detailing of stay cables including saddles and damping devices Durability requirements and corrosion protection systems Requirements for the materials Testing requirements for the stay cables Installation tolerances qualification of companies and personnel Inspection maintenance and repair This Recommendation does not cover the technology of stay cables whose tensile elements are ropes locked coil cables etc or which consist of composite materials Nevertheless in many cases the specified performance criteria may also be applicable to these systems although numerical values given for the acceptance criteria may need to be adjusted For these systems it has been difficult to provide multiple protective layers similar to those specified for stay cables made from prestressing steel and therefore the quality of corrosion protection may not be equivalent While extradosed cables have similarities with stay cables generally agreed design and system acceptance criteria are not yet available and therefore this type of cable is not covered

**Acceptance of cable systems using prestressing steels** FIB - International Federation for Structural Concrete, 2019-03-01 Cable stayed structures have become increasingly popular over the last 30 years and have been used in all parts of the world Modern cable stayed bridges have a history of over 50 years and have been constructed with span lengths ranging from 15 m to over 1000 m Many long span cable stayed bridges have been built for railway and highway traffic applications Stay cables have also been used on pedestrian structures many of which are architecturally striking and have become landmark structures There is growing use in building structures particularly for cable supported roofs Most of the cable supported structures have been in the form of cable stayed bridges but in recent years extradosed bridges have seen increased popularity among the designers Led by the experience in Japan more than 200 extradosed bridges have been constructed worldwide in the past 15 years The first edition of these fib recommendations was published as fib Bulletin 30 in 2005 and was the first specification published by fib for stay cable systems This new bulletin has been updated based on Bulletin 30 with the aim to reflect the current state of the art and encompass the latest knowledge in cable systems In addition it has been the aspiration of Commission 5 and Task Group 5.5 to harmonize the guidance in this updated bulletin with other stay cable recommendations from around the world including those from Europe Japan and the USA This new bulletin is intended to supersede and replace fib Bulletin 30 It is recommended that it be used in lieu of fib Bulletin 30 for all future cable supported

applications The updated bulletin introduces several significant enhancements to the specifications These recommendations are applicable to both stay cable and extradosed cable applications In the past there has been some debate over the boundary between cable stayed and extradosed bridges This bulletin presents a new continuous approach valid for both A completely new testing requirement to assess the performance of cable systems under bending fatigue including both anchorages and saddles if applicable has been added Testing requirements for saddle systems have been reformulated In addition to the bending fatigue test noted above new testing procedures for stay cable saddles with isolated tensile elements are introduced This includes tests for saddle axial fatigue friction and tensile testing and determination of the effective saddle friction coefficient Expanded system qualification including requirements for both stay cable and extradosed applications Includes new provisions for MTE qualification and additional load transferring connection devices Minimum number of tests is specified for each A new in situ damping measurement test has been added to verify the actual damping ratio of the damping devices installed By testing on site selected cables may be excited to vibrate without and with the damping devices so that the observed v vibration behaviour can be compared to the specified value Other revisions have been made to reflect the current state of practice Expanded quality control testing requirements Inclusion of epoxy coated prestressing steel as a protection layer Previous recommendations only considered zinc coatings Specifications for epoxy coating material are given Requirements for stainless steel components such as pipes caps and plates Updated guidance for designing lightning protection systems Detailed recommendations for different levels of inspection of cable systems including initial routine detailed and exceptional inspections An updated list of references relevant standards and extended literature

**Seismic Design of Reinforced Concrete Buildings and Structures** Structural Engineers Association of Central California, 1968 **Concrete Structure Management - Guide to Ownership and Good Practice** fib Fédération internationale du béton, 2008-01-01 Construction projects are undertaken to meet a variety of business service and aspirational objectives and needs The success of a building or an element of infrastructure depends on how well it meets the owner s needs and interests or those of the users Recent changes in owner attitudes to construction are reflected in an increasing interest in through life costs i e not only the capital costs of construction but also the operational costs associated with a structure s functional performance for a defined life span The owner can greatly improve the likelihood of achieving the value they seek from the facility by being intimately and effectively involved in the definition of performance requirements at the start of the construction procurement process The objective of fib Bulletin 44 is to provide guidance to owners of concrete structures on the management of their concrete structures buildings and infrastructure as part of their business goals or the service objectives of their organization best practice in the management of concrete structures their responsibilities with respect to the management of their concrete structures the wider context and issues of service life design information and direction needed by the supporting professional team of architects engineers specifiers contractors

and others This Guide also provides background information on topics such as deterioration processes and technical procedures used for the management of concrete structures including reference to international standards for the protection and repair of concrete structures These activities are illustrated by application examples case histories and by a section addressing frequently asked questions A brief review is made of some potential future developments

*1st fib Congress in Osaka Japan Vol1* FIB - International Federation for Structural Concrete,2002-01-01

*Seismic Design of Reinforced Concrete Structures for Controlled Inelastic Response* Comité euro-international du béton,1998

This detailed guide is designed to enable the reader to understand the relative importance of the numerous parameters involved in seismic design and the relationships between them as well as the motivations behind the choices adopted by the codes

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## **Table of Contents Seismic Design Of Reinforced And Precast Concrete Buildings**

1. Understanding the eBook Seismic Design Of Reinforced And Precast Concrete Buildings
  - The Rise of Digital Reading Seismic Design Of Reinforced And Precast Concrete Buildings
  - Advantages of eBooks Over Traditional Books
2. Identifying Seismic Design Of Reinforced And Precast Concrete Buildings
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Seismic Design Of Reinforced And Precast Concrete Buildings
  - User-Friendly Interface
4. Exploring eBook Recommendations from Seismic Design Of Reinforced And Precast Concrete Buildings
  - Personalized Recommendations
  - Seismic Design Of Reinforced And Precast Concrete Buildings User Reviews and Ratings
  - Seismic Design Of Reinforced And Precast Concrete Buildings and Bestseller Lists

5. Accessing Seismic Design Of Reinforced And Precast Concrete Buildings Free and Paid eBooks
  - Seismic Design Of Reinforced And Precast Concrete Buildings Public Domain eBooks
  - Seismic Design Of Reinforced And Precast Concrete Buildings eBook Subscription Services
  - Seismic Design Of Reinforced And Precast Concrete Buildings Budget-Friendly Options
6. Navigating Seismic Design Of Reinforced And Precast Concrete Buildings eBook Formats
  - ePub, PDF, MOBI, and More
  - Seismic Design Of Reinforced And Precast Concrete Buildings Compatibility with Devices
  - Seismic Design Of Reinforced And Precast Concrete Buildings Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Seismic Design Of Reinforced And Precast Concrete Buildings
  - Highlighting and Note-Taking Seismic Design Of Reinforced And Precast Concrete Buildings
  - Interactive Elements Seismic Design Of Reinforced And Precast Concrete Buildings
8. Staying Engaged with Seismic Design Of Reinforced And Precast Concrete Buildings
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Seismic Design Of Reinforced And Precast Concrete Buildings
9. Balancing eBooks and Physical Books Seismic Design Of Reinforced And Precast Concrete Buildings
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Seismic Design Of Reinforced And Precast Concrete Buildings
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Seismic Design Of Reinforced And Precast Concrete Buildings
  - Setting Reading Goals Seismic Design Of Reinforced And Precast Concrete Buildings
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Seismic Design Of Reinforced And Precast Concrete Buildings
  - Fact-Checking eBook Content of Seismic Design Of Reinforced And Precast Concrete Buildings
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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