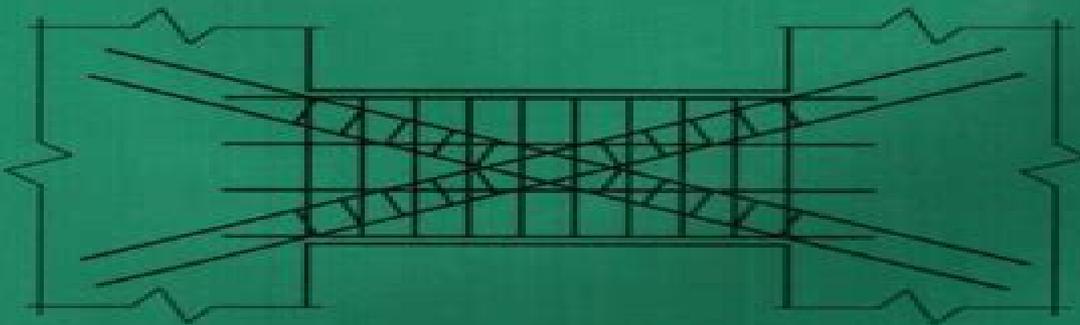
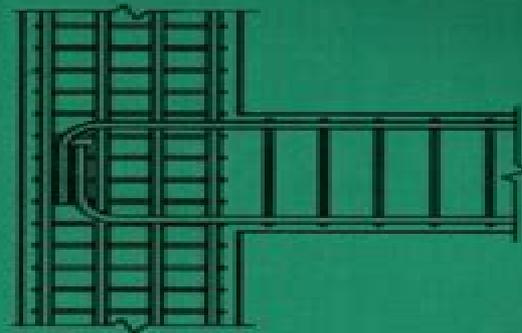
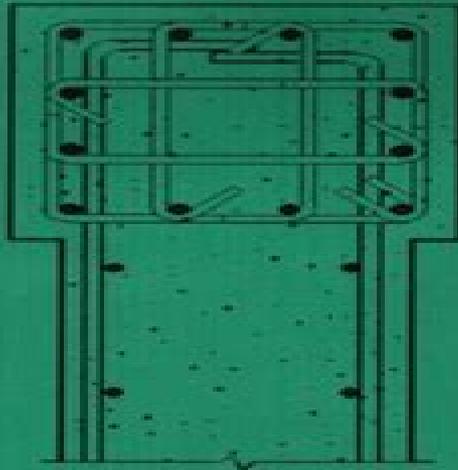


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Seismic Detailing of Concrete Buildings

by David A. Fanella



P O R T L A N D C E M E N T A S S O C I A T I O N

Seismic Detailing Of Concrete Buildings

Robert E. Englekirk



Seismic Detailing Of Concrete Buildings:

Seismic Detailing of Concrete Buildings David Anthony Fanella,2000 **Seismic Design of Concrete Buildings to Eurocode 8** Michael Fardis,Eduardo Carvalho,Peter Fajfar,Alain Pecker,2015-02-04 An Original Source of Expressions and Tools for the Design of Concrete Elements with Eurocode

Seismic design of concrete buildings needs to be performed to a strong and recognized standard Eurocode 8 was introduced recently in the 30 countries belonging to CEN as part of the suite of Structural Eurocodes and it represents the first European Standard

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 7.2 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 7.2 Seismic Design *Seismic Performance of Concrete Buildings* Liviu Crainic, Mihai Munteanu, 2012-12-10 This book examines and presents essential aspects of the behavior analysis design and detailing of reinforced concrete buildings subjected to strong seismic activity Seismic design is an extremely complex problem that has seen spectacular development in the last decades The present volume tries to show how the principles and methods of earthquake *Seismic Design, Assessment and Retrofitting of Concrete Buildings* Michael N. Fardis, 2009-07-25 Reflecting the historic first European seismic code this professional book focuses on seismic design assessment and retrofitting of concrete buildings with thorough reference to and application of EN Eurocode 8 Following the publication of EN Eurocode 8 in 2004 05 30 countries are now introducing this European standard for seismic design for application in parallel with existing national standards till March 2010 and exclusively after that Eurocode 8 is also expected to influence standards in countries outside Europe or at the least to be applied there for important facilities Owing to the increasing awareness of the threat posed by existing buildings substandard and deficient buildings and the lack of national or international standards for assessment and retrofitting its impact in that field is expected to be major Written by the lead person in the development of the EN Eurocode 8 the present handbook explains the principles and rationale of seismic design according to modern codes and provides thorough guidance for the conceptual seismic design of concrete buildings and their foundations It examines the experimental behaviour of concrete members under cyclic loading and modelling for design and analysis purposes it develops the essentials of linear or nonlinear seismic analysis for the purposes of design assessment and retrofitting especially using Eurocode 8 and gives detailed guidance for modelling concrete buildings at the member and at the system level Moreover readers gain access to overviews of provisions of Eurocode 8 plus an

understanding for them on the basis of the simple models of the element behaviour presented in the book Also examined are the modern trends in performance and displacement based seismic assessment of existing buildings comparing the relevant provisions of Eurocode 8 with those of new US prestandards and details of the most common and popular seismic retrofitting techniques for concrete buildings and guidance for retrofitting strategies at the system level Comprehensive walk through examples of detailed design elucidate the application of Eurocode 8 to common situations in practical design Examples and case studies of seismic assessment and retrofitting of a few real buildings are also presented From the reviews This is a massive book that has no equal in the published literature as far as the reviewer knows It is dense and comprehensive and leaves nothing to chance It is certainly taxing on the reader and the potential user but without it use of Eurocode 8 will be that much more difficult In short this is a must read book for researchers and practitioners in Europe and of use to readers outside of Europe too This book will remain an indispensable backup to Eurocode 8 and its existing Designers Guide to EN 1998 1 and EN 1998 5 published in 2005 for many years to come Congratulations to the author for a very well planned scope and contents and for a flawless execution of the plan AMR S ELNASHAI The book is an impressive source of information to understand the response of reinforced concrete buildings under seismic loads with the ultimate goal of presenting and explaining the state of the art of seismic design Underlying the contents of the book is the in depth knowledge of the author in this field and in particular his extremely important contribution to the development of the European Design Standard EN 1998 Eurocode 8 Design of structures for earthquake resistance However although Eurocode 8 is at the core of the book many comparisons are made to other design practices namely from the US and from Japan thus enriching the contents and interest of the book

EDUARDO C CARVALHO *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

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.

Concrete Buildings in Seismic Regions, Second Edition George Penelis, Gregory Penelis, 2018-10-04 Reinforced concrete R/C is one of the main building materials used worldwide and an understanding of its structural performance under gravity and seismic loads, albeit complex, is crucial for the design of cost-effective and safe buildings. **Concrete Buildings in Seismic Regions** comprehensively covers all the analysis and design issues related to *Performance-based Seismic Design of Concrete Buildings*.

Jeff Dragovich, Mary Beth Deisz Hueste, Brian E. Kehoe, InSung Kim, 2020 **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.

Earthquake resistance design for reinforced concrete structures S. Munter, 1995 The SRIA's new Guide is both an update and an expansion of the 1995 *Seismic Detailing for Reinforced Concrete Buildings in Australia*. It covers design as well as detailing of reinforced concrete buildings for seismic actions. It will assist graduate engineers, practicing engineers and other designers with limited seismic experience and senior engineers seeking to refresh themselves of the current developments and practical aspects of reinforcement design and detailing for seismic actions in Australia. **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 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.

The Seismic Design Handbook Farzad Naeim, 2001-03-31 The Seismic Design Handbook is a primary resource for both researchers and teachers in the field of earthquake resistant design. The first edition of this handbook was received with much enthusiasm. It is the de facto textbook for teaching seismic design principles at many major universities. In the United States, UC Berkeley, Stanford, UCLA, University of Southern California, SUNY Buffalo, the University of Illinois, Washington University, the University of Texas at Austin, Georgia Tech, Cornell, and the University of Michigan have adopted the text. Abroad, the Imperial College of London and the Israel Institute of Technology are among its adopters. This second edition contains up-to-date information on planning, analysis, and design of earthquake-resistant building structures. Its intention is to provide engineers, architects, developers, and students of structural engineering and architecture with authoritative yet practical design information. It bridges the gap between advances in the theories and concepts of seismic design and their implementation in practice. This handbook has been endorsed by the International Conference of Building Officials. Audience: The Seismic Design Handbook is a must for practicing engineers, architects, building officials, developers, teachers, and students in the field of earthquake-resistant building design. Its distinguished panel of contributors is made up of 22 experts from industry and universities recognized for their knowledge and extensive practical experience in their fields. **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.

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 PRESS 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

Seismic Design for Buildings, 1982

Performance-based Seismic Design of Concrete Structures and Infrastructures Vagelis Plevris, Georgia Kremmyda, Yasin Fahjan, 2017 This book is an informative reference source on all the latest trends and emerging data associated with structural design Highlighting key topics such as seismic assessments shear wall structures and infrastructure resilience this is an ideal resource for all academicians students professionals and researchers that are seeking new knowledge on the best methods and techniques for designing solid structural designs Provided by publisher

Reinforced Concrete, 1995

Nonlinear Seismic Analysis and Design of Reinforced Concrete Buildings P. Fajfar, H. Krawinkler, 1992-03-20 Forty scientists working in 13 different countries detail in this work the most recent advances in seismic design and performance assessment of reinforced concrete buildings It is a valuable contribution in the mitigation of natural disasters

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