

Jack Moehle

Seismic Design of Reinforced Concrete Buildings



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Michael Fardis, Eduardo Carvalho, Peter Fajfar, Alain Pecker



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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

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 J. Ferry Borges, Artur Ravara, 1969 *Seismic Design of Reinforced Concrete Buildings and Structures* Structural Engineers Association of Central California, 1968 **Earthquake Design Practice for Buildings** Edmund D. Booth, David Key, 2006 Talking about earthquake engineering this second edition is intended for practising structural engineers including those with little or no knowledge of the subject and also for advanced engineering students It discusses the provisions of seismic codes particularly Eurocode 8 *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 Aids for Nonlinear Analysis of Reinforced Concrete Structures Srinivasan Chandrasekaran, Luciano Nunziante, Giorgio Serino, Federico Carannante, 2016-04-19 Tools to Safeguard New Buildings and Assess Existing Ones Nonlinear analysis methods such as static pushover are globally considered a reliable tool for seismic and structural assessment But the accuracy of seismic capacity estimates which can prevent catastrophic loss of life and astronomical damage repair costs depends on the use of the correct b **Seismic design of reinforced concrete buildings** Julio F. Borges, 1967 **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 earthqua **EARTHQUAKE RESISTANT DESIGN OF STRUCTURES** AGRAWAL, PANKAJ ,SHRIKHANDE, MANISH ,2006-01-01 This comprehensive and well organized book presents the concepts and principles of earthquake resistant design of structures in an easy to read style The use of these principles helps in the implementation of seismic design practice The book adopts a step by step approach starting from the fundamentals of structural dynamics to application of seismic codes in analysis and design of structures The text also focusses on seismic evaluation and retrofitting of reinforced concrete and masonry buildings The text has been enriched with a large number of diagrams and solved problems to reinforce the understanding of the concepts

Intended mainly as a text for undergraduate and postgraduate students of civil engineering this text would also be of considerable benefit to practising engineers architects field engineers and teachers in the field of earthquake resistant design of structures

Dynamic Loading and Design of Structures Andreas Kappos,2001-10-11 Until now information on the dynamic loading of structures has been widely scattered No other book has examined the different types of loading in a comprehensive and systematic manner and looked at their significance in the design process The book begins with a survey of the probabilistic background to all forms of loads which is particularly important to dynamic loads and then looks at the main types in turn wind earthquake wave blast and impact loading The relevant code provisions Eurocode and UBC American are detailed and a number of examples are used to illustrate the principles A final section covers the analysis for dynamic loading drawing out the concepts underlying the treatment of all dynamic loads and the corresponding modelling techniques Throughout there is a focus on the modelling of structures rather than on classical structural dynamics

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 of all the analysis and design issues related

Seismic Design of Reinforced Concrete Buildings Angeliki Vitoratou,1989

Proceedings of Italian Concrete Days 2016 Marco di Prisco,Marco Menegotto,2018-04-16 This book gathers the best peer reviewed papers presented at the Italian Concrete Days national conference held in Rome Italy on October 27 28 2016 The conference topics encompass the aspects of design execution rehabilitation and control of concrete structures with particular reference to theory and modeling applications and realizations materials and investigations technology and construction techniques The contributions amply demonstrate that today s structural concrete applications concern not only new constructions but more and more rehabilitation conservation strengthening and seismic upgrading of existing premises and that requirements cover new aspects within the frame of sustainability including environmental friendliness durability adaptability and reuse of works and or materials As such the book represents an invaluable up to the minute tool providing an essential overview of structural concrete as well as all new materials with cementitious matrices

Seismic Design Aids for Nonlinear Pushover Analysis of Reinforced Concrete and Steel Bridges Jeffrey Ger, Franklin Y. Cheng,2016-04-19 Nonlinear static monotonic pushover analysis has become a common practice in performance based bridge seismic design The popularity of pushover analysis is due to its ability to identify the failure modes and the design limit states of bridge piers and to provide the progressive collapse sequence of damaged bridges when subjected to major earthq

Design of Hybrid Structures André Plumier,Hervé Degée,2023-05-09 Well designed hybrid structures can combine the different performance strengths materials This guide focuses on design approaches for concrete structures reinforced in an unconventional way by steel profiles It explains force transfer mechanisms of steel profiles and

concrete interfaces and an analysis of the characteristics of hybrid structures including slender components. Several types of hybrid designs are addressed: walls and columns with several embedded steel profiles; connections strengthened by steel profiles between steel and composite or reinforced concrete components including the specific case of shear keys connecting deep beams or flat slabs to columns. The transition zones in partly reinforced concrete and partly composite columns are also covered. Design of Hybrid Structures draws on the European SMARTCOCO research project of experimentation and numerical modelling giving practical guidance for designers and introducing the subject for researchers and graduate students.

Automated Seismic Design of Reinforced Concrete Buildings Y. S. Chung, 1988. A new automatic method for the seismic design of reinforced concrete frame buildings is presented. A new damage index is reviewed which serves as a measure of a member's residual energy dissipation capacity and is suitable as a control parameter in an automated design method. The method proposed aims for a uniform energy dissipation throughout the building frame as measured by the individual member damage indices. The new damage index is modeled on the low cycle fatigue phenomenon exhibited by reinforced concrete members subjected to strong inelastic cyclic loads. It accounts for the observed stiffness and strength deterioration, includes a modified Miner's Rule for variable amplitude loading and considers the effect of load history. These features make the damage index a useful measure of a member's capacity to resist further cyclic loading. The automatic design method is based on a thorough study of the effects of three important design variables: the longitudinal reinforcement, the confinement steel and member depth. Design rules derived from the large number of numerical studies allow an iterative improvement of a preliminary design until the distribution of damage indices has reached a user specified degree of uniformity. The usefulness of this design method, which incorporates aspects of a knowledge based expert system, is demonstrated with a typical four story three bay office building. Abstract.

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.

Seismic Design of Reinforced and Precast Concrete Buildings Englekirk, P. C. Jordan, 2003-02-01.

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