# REINFORCED AND PRECAST CONCRETE BUILDINGS

PER ARCHITAGO

ROBERT E. ENGLEKIRK

# Seismic Design Of Reinforced And Precast Concrete Buildings

Liviu Crainic, Mihai Munteanu

# Seismic Design Of Reinforced And Precast Concrete Buildings:

Seismic Design of Reinforced and Precast Concrete Buildings Englekirk, P. C. Jordan, 2003-02-01 **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 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 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 byfib Commission 7 Seismic design 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 **Design of Connections for Precast Prestressed Concrete Buildings for the Effects of Earthquake** D. P. Clough, 1986 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 7Seismic 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 fibCongress in Osaka It was also there that it was approved by fib Commission 7Seismic Design 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 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 earthquakeresisting 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 EARTHOUAKE RESISTANT DESIGN OF STRUCTURES AGRAWAL, PANKAI ,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 Externally applied FRP reinforcement for concrete structures FIB - International Federation for Structural Concrete, 2019-05-01 In December 1996 CEB established a Task Group with the main objective to elaborate design guidelines for the use of FRP reinforcement in accordance with the design format of the CEB FIP Model Code and Eurocode2 With the merger of CEB and FIP into fib in June 1998 this Task Group became fib TG 9 3 FRP Reinforcement for concrete structures in Commission 9 Reinforcing and Prestressing Materials and Systems Finally as a result of the restructuring of fib's Commissions and Task Groups at the end of 2014 the Task Group became fib T5 1 FRP Reinforcement for concrete structures chaired by Stijn Matthys at Ghent University in Commission 5 Reinforcements The work of former TG 9 3 and current T5 1 was performed by two working parties WP one of which is Externally Applied Reinforcement EAR which produced fib bulletin 14 Externally bonded FRP reinforcement for RC structures in July 2001 Following a number of years of relatively slow activity the WP on externally applied reinforcement was reactivated and started working on an update of bulletin 14 The result of this work is summarised in the present technical report which aims to give design guidelines on the use of externally applied FRP reinforcement both externally bonded and near surface mounted for concrete structures An attempt has been made to present some of the topics in a Eurocode compatible format so that the material covered may form the basis for the introduction of composites in the next version of Eurocode 2 and for the updating of the text on seismic retrofitting with composites in the next version of Eurocode

8 All persons who participated in the preparation of this Bulletin are mentioned in the copyright page Further acknowledgements are due to Jos e Bastien Canada Hans Rudolf Ganz Switzerland and Luc Taerwe Belgium for revision of the document To all members of the working party on externally applied reinforcement our sincere thanks are expressed for the high quality and extensive work brought in on a voluntary basis Fibre-reinforced concrete:From design to structural applications FIB - Féd. Int. du Béton, 2016 The FRC 2014 Workshop Fibre Reinforced Concrete from Design to Structural Applications was the first ACI fib joint technical event The Workshop held at Polytechnique Montreal Canada on July 24th and 25th 2014 was attended by 116 participants from 25 countries and 4 continents The first international FRC workshop was held in Bergamo Italy in 2004 At that time the lack of specific building codes and standards was identified as the main inhibitor to the application of this technology in engineering practice Ten years after Bergamo many of the objectives identified at that time have been achieved The use of fibre reinforced concrete FRC for designing structural members in bending and shear has recently been addressed in the fib Model Code 2010 Steel fibre reinforced concrete SFRC has also been used structurally in several building and bridge projects in Europe and North America SFRC has been widely used in segmental tunnel linings all over the world Members of ACI544 and fib TG 4.1 have been involved in writing code based specifications for the design of FRC structural members More than fifty papers were presented at the Workshop from which forty four were selected for this joint ACI fib publication The papers are organised in the document under six themes Design guidelines and specifications Material properties for design Behaviour and design of beams and columns Behaviour and design of slabs and other structures Behaviour and design of foundations and underground components and finally Applications in structure and underground construction projects Fibre Reinforced Concrete: From Design to Structural Applications FIB - International Federation for Structural Concrete, 2020-08-01 The first international FRC workshop supported by RILEM and ACI was held in Bergamo Italy in 2004 At that time a lack of specific building codes and standards was identified as the main inhibitor to the application of this technology in engineering practice. The workshop aim was placed on the identification of applications guidelines and research needs in order for this advanced technology to be transferred to professional practice The second international FRC workshop held in Montreal Canada in 2014 was the first ACI fib joint technical event Many of the objectives identified in 2004 had been achieved by various groups of researchers who shared a common interest in extending the application of FRC materials into the realm of structural engineering and design The aim of the workshop was to provide the State of the Art on the recent progress that had been made in term of specifications and actual applications for buildings underground structures and bridge projects worldwide The rapid development of codes the introduction of new materials and the growing interest of the construction industry suggested presenting this forum at closer intervals In this context the third international FRC workshop was held in Desenzano Italy four years after Montreal In this first ACI fib RILEM joint technical event the maturity gained through the recent

technological developments and large scale applications were used to show the acceptability of the concrete design using various fibre compositions The growing interests of civil infrastructure owners in ultra high performance fibre reinforced concrete UHPFRC and synthetic fibres in structural applications bring new challenges in terms of concrete technology and design recommendations In such a short period of time we have witnessed the proliferation of the use of fibres as structural reinforcement in various applications such as industrial floors elevated slabs precast tunnel lining sections foundations as well as bridge decks We are now moving towards addressing many durability based design requirements by the use of fibres as well as the general serviceability based design However the possibility of having a residual tensile strength after cracking of the concrete matrix requires a new conceptual approach for a proper design of FRC structural elements With such a perspective in mind the aim of FRC2018 workshop was to provide the State of the Art on the recent progress in terms of specifications development actual applications and to expose users and researchers to the challenges in the design and construction of a wide variety of structural applications Considering that at the time of the first workshop in 2004 no structural codes were available on FRC we have to recognize the enormous work done by researchers all over the world who have presented at many FRC events and convinced code bodies to include FRC among the reliable alternatives for structural applications This will allow engineers to increasingly utilize FRC with confidence for designing safe and durable structures Many presentations also clearly showed that FRC is a promising material for efficient rehabilitation of existing infrastructure in a broad spectrum of repair applications These cases range from sustained gravity loads to harsh environmental conditions and seismic applications which are some of the broadest ranges of applications in Civil Engineering The workshop was attended by researchers designers owner and government representatives as well as participants from the construction and fibre industries The presence of people with different expertise provided a unique opportunity to share knowledge and promote collaborative efforts These interactions are essential for the common goal of making better and sustainable constructions in the near future The workshop was attended by about 150 participants coming from 30 countries Researchers from all the continents participated in the workshop including 24 Ph D students who brought their enthusiasm in FRC structural applications For this reason the workshop Co chairs sincerely thank all the enterprises that sponsored this event They also extend their appreciation for the support provided by the industry over the last 30 years which allowed research centers to study FRC materials and their properties and develop applications to making its use more routine and accepted throughout the world Their important contribution has been essential for moving the knowledge base forward Finally we appreciate the enormous support received from all three sponsoring organizations of ACI fib and Rilem and look forward to paving the path for future collaborations in various areas of common interest so that the developmental work and implementation of new specifications and design procedures can be expedited internationally **Static and Dynamic** Performance Analysis of Structures and Materials Under Complex Loads and Environmental Excitation Ping

Xiang, Abdelmoumen Anis Bousahla, Huaping Wang, Adesola Ademiloye, 2025-05-29 With the development of structural materials more and more new materials and construction methods are applied to infrastructure construction in order to achieve carbon neutrality and emission peak Nowadays people have more and more strict requirements for the comfort safety and resistance to environmental disasters of infrastructure Therefore the static and dynamic performance of new structures and materials under complex environment and load becomes more and more important in construction and design of infrastructure engineering Modern civil engineering has been developing towards intelligence Both construction technology and material technology are developing towards a more intelligent direction. How to take new means to make the structure have good mechanical performance and can sense the external environment and load excitation is a development direction of civil engineering This Research Topic welcomes researches on the macro and micro mechanical performance analysis of materials static and dynamic response analysis of structures in construction engineering bridge engineering railway engineering and geotechnical engineering In addition under the action of wind load and earthquake load the large scale vibration of structures will seriously endanger the safety The safety and stability performances of infrastructures still represent a serious challenge to researchers engineers and constructors This Research Topic is dedicated to the most recent advances in research into the mechanical performances of structures and materials and some related applications We welcome scientists and investigators to contribute Original Research and Review articles addressing the main issues facing the field Potential topics include but are not limited to the following New theoretical numerical and experimental methods for vibration of structures Assessment of dynamic responses of infrastructures under static and dynamic loads Innovative design and mechanical performances of composite structures Intelligent structural health monitoring with optical fiber sensing technology Mechanical performances of structures and materials from micro to macro scales Mechanism of vehicle bridge coupling vibration Structural fatigue performance analysis under earthquakes Infrastructure innovations for durability and resilience with new structure system and materials Dynamic evolution of structural damage under extreme loads such as earthquake typhoon and impact Structural heath monitoring of large scale infrastructures Numerical modelling and computational mechanical analysis of structures and infrastructures Structural Concrete Textbook, Volume 4 fib Fédération internationale du béton, 2010-06-01 The second edition of the Structural Concrete Textbook is an extensive revision that reflects advances in knowledge and technology over the past decade It was prepared in the intermediate period from the CEP FIP Model Code 1990 MC90 to fib Model Code for Concrete Structures 2010 MC2010 and as such incorporates a significant amount of information that has been already finalized for MC2010 while keeping some material from MC90 that was not yet modified considerably The objective of the textbook is to give detailed information on a wide range of concrete engineering from selection of appropriate structural system and also materials through design and execution and finally behaviour in use The revised fib Structural Concrete Textbook covers the following main topics phases of design process

conceptual design short and long term properties of conventional concrete including creep shrinkage fatigue and temperature influences special types of concretes such as self compacting concrete architectural concrete fibre reinforced concrete high and ultra high performance concrete properties of reinforcing and prestressing materials bond tension stiffening moment curvature confining effect dowel action aggregate interlock structural analysis with or without time dependent effects definition of limit states control of cracking and deformations design for moment shear or torsion buckling fatigue anchorages splices detailing design for durability including service life design aspects deterioration mechanisms modelling of deterioration mechanisms environmental influences influences of design and execution on durability fire design including changes in material and structural properties spalling degree of deterioration member design linear members and slabs with reinforcement layout deep beams management assessment maintenance repair including conservation strategies risk management types of interventions as well as aspects of execution quality assurance formwork and curing The updated textbook provides the basics of material and structural behaviour and the fundamental knowledge needed for the design assessment or retrofitting of concrete structures It will be essential reading material for graduate students in the field of structural concrete and also assist designers and consultants in understanding the background to the rules they apply in their practice Furthermore it should prove particularly valuable to users of the new editions of Eurocode 2 for concrete buildings bridges and container structures which are based only partly on MC90 and partly on more recent knowledge which was not included in the 1999 edition of the textbook **Improving Earthquake and Cyclone Resistance of Structures** Sekhar Chandra Dutta, 2012-01-01 In spite of mankind s triumph in taming nature for his survival and benefit succumbing to the vagaries of nature has become a regular global concern Out of the array of different catastrophes earthquakes and cyclones together are responsible for an overwhelming majority of the global damages caused by natural disasters in the last decade leaving millions homeless The loss of property and life are primarily due to failure of structures to withstand such catastrophes caused often due to lack of implementation of a few guidelines. The evolution of these guidelines is rooted in understanding the principles of the mechanics that regulate the behaviour of the structures under lateral dynamic loading imparted by earthquakes and cyclones In this context Improving Earthquake and Cyclone Resistance of Structures guidelines for the Indian subcontinent is an attempt to introduce guidelines for the types of building structures frequently observed and built in the Indian subcontinent as well as in other developing countries The guidelines are meant for both architectural and structural features and include constructional aspects as well The book introduces these guidelines in such a manner that all aspects can be properly understood related and implemented by practising engineers and architects On the whole the book may help develop awareness and sensitized technical manpower for combating the threats posed by natural disasters like earthquakes and cyclones Guide for Protection and Repair of Concrete Structures FIB - International Federation for Structural Concrete, 2022-03-01 The idea of preparing a technical document for the repairs and interventions upon

concrete structures goes back to the former fib COM5 Structural Service Life Aspects being the goal of the then TG5 9 After a long period of reduced activity and taking into account the reorganization of fib commissions that meanwhile took place on June 2017 a different approach was proposed to push forward the task of TG8 1 formerly TG5 9 The new goal of TG 8 1 was to deliver a how to do guide gathering together protection repair and strengthening techniques for concrete structures Chapters are intended to provide both guidelines and case studies serving as support to the application of fib MC2020 pre normative specifications Each chapter was written by an editorial team comprising desirably at least a researcher a designer and a contractor Templates have been prepared in order to harmonize the contents and the presentation of the different methods Following the writing process chapters were reviewed by experts and after amendments by the authors they underwent a second review process by COM8 and TG3 4 members as well as by different practitioners For each protection repair and strengthening method addressed in this guide readers have a description of when to adopt it which materials and systems are required which techniques are available and what kind of equipment is needed It then presents a summary of stakeholders roles and qualifications design guidelines referring to most relevant codes and references the intervention procedure quality control measures and monitoring and maintenance activities Due to the extent of the quide it was decided to publish it as bulletin 102 addressing protection and repair methods and bulletin 103 addressing strengthening methods We would like to thank the authors reviewers and members of COM8 and TG3 4 for their work in developing this fib Bulletin which we hope will be useful for professionals working in the field of existing concrete structures especially those concerned with life cycle management and conservation activities As noted above this Bulletin is also intended to act as a background and supporting document to the next edition of the fib Model Code for Concrete Structures which is currently under development under the auspices of TG10 1 with the working title of fib Model Code 2020 **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 Guide for Strengthening of Concrete Structures FIB - International Federation for Structural Concrete, 2022-05-01 The idea of preparing a technical document for the repairs and interventions upon concrete structures goes back to the former fib COM 5 Structural Service Life Aspects being the goal of the then TG 5 9 After a long period of reduced activity and taking into account the reorganization of fib commissions that meanwhile took place on June 2017 a different approach was proposed to push forward the task of TG 8 1 formerly TG 5 9 The new goal of TG 8 1 was to deliver a how to do guide gathering together protection repair and strengthening techniques for concrete structures Chapters are intended to provide both guidelines and case studies serving as support to the application of fib MC 2020 pre normative specifications Each chapter was written by an editorial team comprising desirably at least a researcher a

designer and a contractor Templates have been prepared in order to harmonize the contents and the presentation of the different methods Following the writing process chapters were reviewed by experts and after amendments by the authors they underwent a second review process by COM 8 and TG 3 4 members as well as by different practitioners For each protection repair and strengthening method addressed in this guide readers have a description of when to adopt it which materials and systems are required which techniques are available and what kind of equipment is needed It then presents a summary of stakeholders roles and qualifications design guidelines referring to most relevant codes and references the intervention procedure quality control measures and monitoring and maintenance activities Due to the extent of the guide it was decided to publish it as bulletin 102 addressing protection and repair methods and bulletin 103 addressing strengthening methods We would like to thank the authors reviewers and members of COM 8 and TG 3 4 for their work in developing this fib Bulletin which we hope will be useful for professionals working in the field of existing concrete structures especially those concerned with life cycle management and conservation activities As noted above this Bulletin is also intended to act as a background and supporting document to the next edition of the fib Model Code for Concrete Structures which is currently under development under the auspices of TG10 1 with the working title of fib Model Code 2020

# Seismic Design Of Reinforced And Precast Concrete Buildings Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "Seismic Design Of Reinforced And Precast Concrete Buildings," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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# Seismic Design Of Reinforced And Precast Concrete Buildings Introduction

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