

# The Fib Model Code For Concrete Structures 2010

Model Code 2010 - Final draft fib Model Code for Concrete Structures 2010 Fib Model Code for Concrete Structures 2010 Structural Concrete Textbook, Volume 4 Fib Model Code for Concrete Structures 2010 Fibre-reinforced concrete: From design to structural applications Serviceability Limit State of Concrete Structures Model Code 2010 - First complete draft - Volume 2 Code-type models for concrete behaviour Basic Principles of Concrete Structures Structural Concrete Textbook, Volume 5 Bond and anchorage of embedded reinforcement: Background to the fib Model Code for Concrete Structures 2010 2010 fib awards for outstanding concrete structures : winners, special mentions and nominees Eurocode 2: Design of Concrete Structures Progress in Polymers in Concrete Precast Concrete Structures 2010 Fib Awards for Outstanding Concrete Structures Fibre Reinforced Concrete: From Design to Structural Applications High Performance Concrete – Innovation & Utilization Functional Materials and Metallurgy fib Fédération internationale du béton fib - federation internationale du beton International Federation for Structural Concrete fib Fédération internationale du béton FIB - Féd. Int. du Béton FIB – International Federation for Structural Concrete fib Fédération internationale du béton fib Fédération internationale du béton Xianglin Gu fib Fédération internationale du béton fib - Fédération internationale du béton International Federation for Structural Concrete Ru Wang Kim S. Elliott FIB – International Federation for Structural Concrete Gai Fei Peng Haider F. Abdul Amir

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the objectives of mc2010 are to a serve as a basis for future codes for concrete structures and b present new developments with regard to concrete structures structural materials and new ideas in order to achieve optimum behaviour mc2010 includes the whole life cycle of a concrete structure from design and construction to conservation assessment maintenance strengthening and dismantlement in one code for buildings bridges and other civil engineering structures design is largely based on performance requirements the chapter on materials is extended with new types of concrete and reinforcement such as fibres and non metallic reinforcements the fib model code 2010 also gives corresponding explanations in a separate column of the document additionally mc2010 is supported by background documents that have already been or will soon be published in fib bulletins and journal articles mc2010 is now the most comprehensive code on concrete structures including their complete life cycle conceptual design dimensioning construction conservation and dismantlement

the international federation for structural concrete fib is a pre normative organization pre normative implies pioneering work in codification this work has now been realized with the fib model code 2010 the objectives of the fib model code 2010 are to serve as a basis for future codes for concrete structures and present new developments with regard to concrete structures structural materials and new ideas in order to achieve optimum behaviour the fib model code 2010 is now the most comprehensive code on concrete structures including their complete life cycle conceptual design dimensioning construction conservation and dismantlement it is expected to become an important document for both national and international code committees practitioners and researchers the fib model code 2010 was produced during the last ten years through an exceptional effort by joost walraven convener delft university of technology the netherlands agnieszka bigaj van vliet technical secretary tno built environment and geosciences the netherlands as well as experts out of 44 countries from five continents

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 fib 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

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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

serviceability limit states are essential for appropriate function and durability of concrete structures the attention is paid especially to the stress limitation crack width analysis and deflection analysis the document provides supplementary information to the fib model code 2010 mc2010 where a limited space did not allow for a detailed description of individual procedures the principles used in mc2010 in chapter 7.6 are explained in detail within this document the stress analysis is focused on stresses in concrete and steel including the stress redistribution due to the long term load and cracking of reinforced concrete and prestressed concrete elements crack width analysis explains the mechanism of cracking under mechanical loading and due to deformation restraint cracks in prestressed concrete elements are also discussed deflection analyses with different levels of accuracy are described including the shear effects examples illustrate the practical application of rules defined in the mc2010 of individual serviceability limit states simplified and more general methods are used an important part of the bulletin shows the development and extension of the serviceability limit states after publishing of the mc2010 and alternative approaches special attention is paid to deflections of prestressed concrete beams shear effects on deflection slenderness limits and influence of the concrete cover the final part deals with an application of numerical simulations

the model code for concrete structures is intended to serve as a basis for future codes it takes into account new developments with respect to concrete structures the structural material concrete and new ideas for the requirements to be formulated for structures in order to achieve optimum behaviour according to new insights and ideas it is also intended as a source of information for updating existing codes or developing new codes for concrete structures at the same time the model code is intended as an operational document for normal design situations and structures

fib model code 2010 represents the state of the art of code type models for structural behaviour of concrete it comprises constitutive relations and material models together with the most important explanatory notes however the underlying normative work i.e. the fundamental data as well as the considerations and discussions behind the formulas could not be given within the model code text based on various experiences gained after the publication of model code 1990 this lacking background information will lead in the following to numerous questions arising from model code users consequently the present bulletin claims to conquer this general weakness of codes in a way to guard against any future misunderstandings of the model code 2010 related to its chapter 5.1 concrete it discusses the given formulas in connection with experimental data and the most important international literature the constitutive relations or material models being included in mc1990 and forming the basis and point of origin of the task group's work were critically evaluated if necessary and possible adjusted or replaced by completely new approaches major criteria have been the physical and thermodynamical soundness as well as practical considerations like simplicity and operability this state of the art report is intended for practicing engineers as well as for researchers and represents a comprehensible summary of the relevant knowledge available to the members of the fib task group 8.7 at the time of its drafting besides the fact that the bulletin is a background document for chapter 5.1 of mc2010 it will provide an important foundation for the development of future generations of code type models related to the characteristics and the behaviour of structural concrete further it will offer insights into the complexity of the normative work related to concrete modelling leading to a better understanding and adequate appreciation of mc2010

based on the latest version of designing codes both for buildings and bridges gb50010 2010 and jtgd62 2004 this book starts from steel and concrete materials whose properties are very important to the mechanical behavior of concrete structural members step by step analysis of reinforced and prestressed concrete members under basic loading types tension compression flexure shearing and torsion and environmental actions are introduced the characteristic of the book that distinguishes it from other textbooks on concrete structures is that more emphasis has been laid on the basic theories of reinforced concrete and the application of the basic theories in design of new structures and analysis of existing structures examples and problems in each chapter are carefully designed to cover every important knowledge point as a basic course for undergraduates majoring in civil engineering this course is different from either the previously learnt mechanics courses or the design courses to be learnt compared with mechanics courses the basic theories of reinforced concrete structures cannot be solely derived by theoretical analysis and compared with design courses this course emphasizes the introduction of basic theories rather than simply being a translation of design specifications the book will focus on both the theoretical derivations and the engineering practices

the third 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 fib 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

as part of the preparation for the fib model code for concrete structures 2010 task group 4 5 bond models undertook a major review of rules for bond and anchorage of reinforcement in the cep fib model code 1990 this bulletin presents the outcome of that review describes the rationale for the revisions and presents the evidence on which the revisions are based the principle changes in mc2010 include raising the limit on concrete strength that may be used when determining bond resistance to 110mpa introduction of a coefficient  $\eta_4$  to cater for different reinforcement classes and coverage of new construction materials including epoxy coated and headed bars the format of design rules has been changed to permit more rational treatment of confinement from concrete cover and transverse reinforcement the contribution of end hooks and bends for tension bars and

end bearing to compression laps new guidance is provided covering a range of construction techniques and service environments and the influence of long term degradation analyses of various aspects of detailing on performance of laps and anchorages have resulted in discontinuation of the proportion lapped factor  $\alpha_6$  alterations to requirements of transverse reinforcement at laps and have resolved inconsistencies in provisions for bundled bars between major national codes apparent inconsistencies in existing rules for lapped joints and anchorages and between the local bond slip model and design rules are also resolved thus allowing integration of application rules and modelling finally the basis for an attempt to introduce simple detailing rules for laps and anchorages is described

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this second edition of precast concrete structures introduces the conceptual design ideas for the prefabrication of concrete structures and presents a number of worked examples that translate designs from bs 8110 to eurocode ec2 before going into the detail of the design manufacture and construction of precast concrete multi storey buildings detailed structural analysis of precast concrete and its use is provided and some details are presented of recent precast skeletal frames of up to forty storeys the theory is supported by numerous worked examples to eurocodes and european product standards for precast reinforced and prestressed concrete elements composite construction joints and connections and frame stability together with extensive specifications for precast concrete structures the book is extensively illustrated with over 500 photographs and line drawings

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



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