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12.1.1 CEB-FIP Model Code 1990

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AASHTO's calculation of the concrete MOE is based on the unit weight and the 28 day compressive strength of concrete. The two additional methods considered herein were the American Concrete Institute (ACI) 209 Model Code (1992) and CEB-FIP 1990 Model Code (2010). A realistic concrete MOE that varies with concrete age is likely to result in more precise estimation of various prestress losses in concrete girders, resulting in more realistic girder design, prestress estimation, camber ...

This design code for concrete structures is the result of a complete revision to the former Model Code 1978, which was produced jointly by CEB and FIP. The 1978 Model Code has had a considerable impact on the national design codes in many countries. In particular, it has been used extensively for the harmonisation of national design codes and as basic reference for Eurocode 2. The 1990 Model Code provides comprehensive guidance to the scientific and technical developments that have occurred over the past decade in the safety, analysis and design of concrete structures. It has already influenced the codification work that is being carried out both nationally and internationally and will continue so to do.

"This document is a comprehensive design code for concrete. It is the result of a comprehensive revision to the original model code of 1978, which was produced jointly by the Comite Euro-International du Beton (CEB) and the Federation International de la Precontrainte (FIP). The original CEB-FIP Model Code of 1978 has had a considerable impact on the national design codes in many countries. In particular, it has been used extensively for the harmonisation of national design codes. "

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) tofib Model Code 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.

The development of reinforced and prestressed concrete during the last 50 years was highly promoted by the "Comité Euro-international du Béton (CEB)" and the "Fédération Internationale de la Précontrainte (FIP)". In 1998 these two associations merged, forming the "Fédération Internationale du Béton (fib)". The results of CEB and FIP had been

distributed in different ways, such as 'CEB Bulletins d'Information', FIP–Reports, FIP–Notes and CEB–News. These Bulletins or reports comprised various kinds of information, such as State-of-the-Art-Reports, Research Reports, Application Manuals, Guides to Good Practice and the CEB/FIP Model Codes 1978 and 1990. These Model Codes provided design principles and application rules to the structural engineering profession and have been predominantly used for code drafting by many national and international standardizing bodies. The Textbook on Structural Concrete is now intended to provide background information and justification especially for the CEB/FIP Model Code 90 and in some fields of recently extended knowledge. It is addressed to advanced students: this means that basic information on structural analysis and behaviour of structural concrete is a required prerequisite. Practising structural engineers may utilize it for gaining background information on the CEB/FIP Model Code 90 (and national or regional codes as for ex. EUROCODE 2, based on MC 90). The Textbook is also conceived to assist teachers at technical universities or engineering schools to achieve better understanding of the recent theories on structural concrete. Having these targets in mind the General Assembly of CEB decided already in 1995 to set-up a Special Activity Group "Dissemination of Knowledge" to realise that work. The authors invited to draft the different chapters had been mostly involved already in drafting the Model Code 90. In this way consistent information could be provided, both for the code and the textbook. Each chapter has been thoroughly discussed and commented within the Special Activity Group 2. This textbook was first presented to fib members during the Technical Activity Workshop in October 1999 in Prague, held in connection with the first fib symposium. The authors are looking forward to receiving comments from various corners.