



Advanced Finite Element Analysis Methods in Structural Engineering

Finite Element Design Of Concrete Structures

Guenter Axel Rombach



Finite Element Design Of Concrete Structures:

Finite Element Design of Concrete Structures Guenter Axel Rombach,2004 In Finite Element Design of Concrete Structures practical problems and their solutions the author addresses this blind belief in computer results by offering a useful critique that important details are overlooked due to the flood of information from the output of computer calculations Indeed errors in the numerical model may lead in extreme cases to structural failures as the collapse of the so called Sleipner platform has demonstrated *Finite-element Design of Concrete Structures* Guenter Axel Rombach,2011 An increasing reliance on computer power means that now even simple structures are designed with the aid of computers In this book the author uses worked examples of real life structures to address the dangers of a blind acceptance of computer outputs Illustrating the difference between theory and practice and the importance of practical knowledge of the behaviour of a structure this book will help readers to eliminate errors in their calculations Publisher **Finite-element Design of Concrete Structures** Guenter Axel Rombach,2011 *Additional Finite Element Method for Analysis of Reinforced Concrete Structures at Limit States* Ermakova A.V.,2012 The work presents the theoretical basis of Additional Finite Element Method AFEM which is a variant of the Finite Element Method FEM for analysis of reinforced concrete structures at limit state AFEM adds to the traditional sequence of problem by FEM the units of the two well known methods of the structural design method of additional loads and limit state method The problem is solved by introduction of ideal failure models and additional design diagrams formed from additional finite elements where each AFE describes the limit state reached by the main element The main relations defining the properties of AFEs as well as the examples of the use of Additional Finite Element Method for analysis of reinforced concrete structures at limit state are given in the work too **Structural Concrete** M. D. Kotsovos,1995 Shows the unifying generality of the proposed approach and the reliability of the ensuing computer package for which the sole input is the specified cylinder strength of concrete and the yield is the stress of steel This book offers an understanding of structural concrete behaviour and illustrates the revision required for improving methods **The Finite Element Method** Bofang Zhu,2018-03-20 A comprehensive review of the Finite Element Method FEM this book provides the fundamentals together with a wide range of applications in civil mechanical and aeronautical engineering It addresses both the theoretical and numerical implementation aspects of the FEM providing examples in several important topics such as solid mechanics fluid mechanics and heat transfer appealing to a wide range of engineering disciplines Written by a renowned author and academician with the Chinese Academy of Engineering The Finite Element Method would appeal to researchers looking to understand how the fundamentals of the FEM can be applied in other disciplines Researchers and graduate students studying hydraulic mechanical and civil engineering will find it a practical reference text *Design of Concrete Structures* J. L. Clarke,F. K. Garas,G. S. T. Armer,1985 **Practitioners' Guide to Finite Element Modelling of Reinforced Concrete Structures** fib Fédération internationale du béton,2008-01-01 Non

linear computer analysis methods have seen remarkable advancement in the last half century The state of the art in non linear finite element analysis of reinforced concrete has progressed to the point where such procedures are close to being practical every day tools for design office engineers Non linear computer analysis procedures can be used to provide reliable assessments of the strength and integrity of damaged or deteriorated structures or of structures built to previous codes standards or practices deemed to be deficient today They can serve as valuable tools in assessing the expected behaviour from retrofitted structures or in investigating and rationally selecting amongst various repair alternatives fib Bulletin 45 provides an overview of current concepts and techniques relating to computer based finite element modelling of structural concrete It summarises the basic knowledge required for use of nonlinear analysis methods as applied to practical design construction and maintenance of concrete structures and attempts to provide a diverse and balanced portrayal of the current technical knowledge recognizing that there are often competing and conflicting viewpoints This report does not give advice on picking one model over another but rather provides guidance to designers on how to use existing and future models as tools in design practice in benchmarking of their models against established and reliable test data and in selecting an appropriate safety factor as well as recognising various pitfalls fib Bulletin 45 is intended for practicing engineers and therefore focuses more on practical application and less on the subtleties of constitutive modelling

Finite Element Analysis of Reinforced Concrete Structures Laura N. Lowes, Filip C. Filippou, American Concrete Institute, 2003

Advances and Trends in Structural Engineering, Mechanics and Computation Alphose Zingoni, 2010-08-16
Advances and Trends in Structural Engineering Mechanics and Computation features over 300 papers classified into 21 sections which were presented at the Fourth International Conference on Structural Engineering Mechanics and Computation SEMC 2010 Cape Town South Africa 6 8 September 2010 The SEMC conferences have been held every 3 years in

Mixed Finite Element Method Apostol Poceski, 2012-12-06 In this book based on 16 years of work on the finite element method the author presents the essence of a new direct approach to the FEM The work is focused on the mixed method and shows how reliable results may be obtained with fewer equations than usual The basic principles the fundamentals and the essence of the FEM are presented then the method is applied to the analysis of one two and three dimensional problems It is shown that mixed elements offer superior accuracy compared with stiffness elements Finally some new achievements and perspectives for further development are presented The book is intended for undergraduate and graduate students mathematicians research engineers and practicing engineers To understand the book a familiarity with classical mechanics is sufficient

Finite Element Analysis of Prestressed Concrete Structures Using Post-Tensioning Steel Yu Huang, Thomas Kang, 2020-05-28 This book details the theory and applications of finite element FE modeling of post tensioned PT concrete structures and provides the updated MATLAB code as of 2019 The challenge of modeling PT prestressed concrete structures lies in the treatment of the interface between the concrete and prestressing tendons Using MATLAB this study develops an

innovative nonlinear FE formulation which incorporates contact techniques and engineering elements to considerably reduce the need of computational power This FE formulation has the ability to simulate different PT frame systems with fully bonded fully unbonded or partially bonded tendons as well as actual sliding behavior and frictional effects in the tendons It also allows for the accurate simulation of anchor seating loss

Computational Modelling of Reinforced Concrete

Structures Ernest Hinton, D. R. J. Owen, 1986 *Finite Element Analysis of Plain and Reinforced Concrete Structures*
Arobindo Dutt, 1970 *Design of Offshore Concrete Structures* O.T. Gudmestad, 2000-08-03 Written by experienced professionals this book provides a state of the art account of the construction of offshore concrete structures It describes the construction process and includes concept definition project management detailed design and quality assurance simplified analyses and detailed design [Finite Element Analysis of Reinforced Concrete Structures II](#) Jeremy Isenberg, 1993 This collection contains 10 papers discussing finite element analysis of reinforced concrete structures presented at an international workshop held in New York New York June 2 5 1991 [Finite-Element Modelling of Structural Concrete](#) Michael D. Kotsovos, 2015-05-20 A Powerful Tool for the Analysis and Design of Complex Structural Elements Finite Element Modelling of Structural Concrete Short Term Static and Dynamic Loading Conditions presents a finite element model of structural concrete under short term loading covering the whole range of short term loading conditions from static monotonic and cyclic to [Efficient Reinforced Concrete Design Using Modified Linear Elastic Finite Element Analysis and Its GPU Implementation](#) Xing Tan, 2012 Although the strut and tie approach is a rational and reasonable approach for the design of non flexural members in concrete structures the approach may lead to suboptimal design as much of the material present in the member is neglected Other difficulties such as the amount of time consumed and the designer dependency of the solutions have been encountered in its implementation To avoid these problems design may be undertaken using conventional linear elastic finite element analysis which can yield more efficient designs with less material usage However the conventional linear elastic finite element method is also inefficient when the non flexural members contain stress singularities such as occur in a deep beam with square or rectangular web openings These stress singularities lead to singular stress fields which always violate the yield criterion This thesis proposes a modified linear elastic finite element method which can successfully remove the stress singularities by adjusting the elastic modulus in certain regions This new approach involves stress redistribution in terms of both compressive stress and tensile stress Three different types of beams namely shallow beams deep beams and deep beams with rectangular openings are used to demonstrate its efficiency Additionally both the conventional strut and tie method and the conventional LEFEA method are performed for comparison Results show that the modified linear finite element approach to design MLEFEA is efficient as it can overcome some of the inefficiencies involved in both conventional the strut and tie design approach and the conventional linear elastic finite element design approach Furthermore to verify its safety the performance of the designs resulting from the new method is

assessed through non linear finite element analysis using ABAQUS where the results indicate that MLEFEA is safe and can be used as a design approach In order to make the MLEFEA analysis more efficient in terms of computing time this thesis also describes the implementation of the method on Graphic Processor Units or GPUs GPUs are now being widely used in various scientific computational applications due to their tremendous performance memory bandwidth and their massively parallel and high intensity computational capacities This thesis applies GPUs to the stress redistribution process arising from the analysis of deep beams with rectangular openings The basic process of stress redistribution and the GPU architecture are first introduced then several parallel techniques for the iterative methods are reviewed Finally the PCG method is chosen as the most suitable approach for the current application This is followed by an introduction to the CSR storage format and the SpMV algorithm The GPU PCG method used for solving the equations systems is then described and the stiffness matrix assembly in CSR format is also presented Finally the efficiency of the GPU implementation is demonstrated by providing speed comparison results between the GPU based and the CPU sequential based algorithm for stress redistribution for the example of a deep beam with web openings

Finite Element Analysis of Reinforced Concrete Structures Jeremy Isenberg, **Constitutive Modelling and Finite Element Analysis of Reinforced Concrete Structures** Pui-Lam Ng, [1], 2017-01-27 This dissertation Constitutive Modelling and Finite Element Analysis of Reinforced Concrete Structures by Pui lam Ng was obtained from The University of Hong Kong Pokfulam Hong Kong and is being sold pursuant to Creative Commons Attribution 3 0 Hong Kong License The content of this dissertation has not been altered in any way We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation All rights not granted by the above license are retained by the author Abstract Abstract of thesis entitled CONSTITUTIVE MODELLING AND FINITE ELEMENT ANALYSIS OF REINFORCED CONCRETE STRUCTURES Submitted by NG Pui Lam for the Degree of Doctor of Philosophy at The University of Hong Kong in September 2007 This thesis is divided into two parts The first part is devoted to the development of new constitutive models of reinforced concrete To properly simulate the stress path dependence of concrete the author devises herein the nonlinear damage model In this model the microcracking induced by stressing of concrete is viewed as damage which is described by two quantifiable damage parameters the damaged modulus and the residual strain On the shear behaviour of concrete it is postulated that the shear stress envelope of concrete is governed by two criteria the Mohr Coulomb criterion of maximum shear stress and the non orthogonal minor crack criterion of maximum shear stress A stress path dependent shear stress strain relation of concrete is established Time dependent analysis of shrinkage and creep effects in concrete structures requires storage of stress histories of finite elements for evaluation of creep This poses a hindrance to the analysis of large problems To circumvent the memorisation of stress histories a new multi layer visco elastic concrete creep model is developed Besides for structures constructed in stages re analysis of the partially completed structure in each stage is necessary in response to changes in structural configurations during

construction Herein the locked in strain is introduced to allow analysing altogether the completed and uncompleted portions thus eliminating the efforts on re meshing and location matching of element stresses and deformations The interactions between concrete and reinforcement are simulated in conjunction with the discrete modelling of reinforcing bars The Goodman interface element is adapted for modelling concrete to reinforcement bond with the implementation of nonlinear bond stress slip relation Besides the dowel action for discrete reinforcing bars is modelled based on the beam on elastic foundation theory The second part of this thesis is on the analysis of reinforced concrete structures The tension stiffening phenomenon in cracked concrete beams is investigated From finite element analysis stress distributions at beam cross sections are revealed and based on which a tensile stress block is derived The tensile stress block enables assessment of beam deflections in structural design process without resorting to finite element analysis for each individual beam Furthermore the post peak behaviour of beams and deep beams is analysed The effects of concrete residual strain bond slip and dowel action on beam responses are studied The finite element programme is applied to the analysis of shear transfer across joints between concrete units with particular reference to precast segmental post tensioned bridges To model the epoxy adhesive between joint surfaces the epoxy element is developed from the nonlinear linkage element It is found that with the joint surfaces pressing against each other by prestressing the shear transfer capacity of flat joints is already sufficient comparable to intact concrete and the provision of shear keys at joint surfaces is superfluous from the shear stren

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