Finite Element Analysis of Reinforced Concrete Structures

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Finite Element Analysis of Reinforced Concrete Structures - Tadashi Tanaka - 2001

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Nonlinear Finite Element Analysis of Composite and Reinforced Concrete Beams - Xiansen Lin - 2010-10-8

Finite Element Analysis of Composite and Reinforced Concrete Beams presents advanced methods and techniques for the analysis of composite and FRP reinforced concrete beams. The book标题 introduces detailed numerical modeling and the modeling of the structural behavior of composite beams, including the critical interfacial bond-slip behavior. It covers a new family of composite beam elements developed by the authors. Other sections cover nonlinear element analysis procedures for composite beams and for FRP reinforced concrete beams.

Nonlinear Finite Element Analysis of Composite and Reinforced Concrete Beams - Xiansen Lin - 2010-10-8

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Finite Element Analysis of Reinforced Concrete Slabs - Jon Cornwell Jolifit - 1970-9

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Additional Finite Element Method for Analysis of Reinforced Concrete Structures at Limit States - Erkan Tuncay A. - 2002-4-24

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 unit of the two well-known methods of the structural design: method of additional load and limit state method. The problem is solved by introduction of ideal failure modes and additional design diagrams formed from additional finite elements, where each AFEM describes the limit state reached by the main element. The main relations defining the properties of AFEM as well as the usage of the use of AFEM are presented. In addition, AFEM is adapted for practical use. The stress path based strain 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 model, the intracracking induced by straining of concrete is viewed as damage, which is described by a particular reference to plastic 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 pre stressing, 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 stress.
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
standards. It summarises the basic knowledge required for use of non-linear analysis methods as applied to practical design.

Nonlinear Finite Element Analysis of Reinforced Concrete Structures - Amir S. Apsis - 1995
Finite Element Analysis of Reinforced Concrete - Zdenek P. Bazant - 1982
Finite Element Analysis of Reinforced Concrete - Zdenek P. Bazant - 1982

Three Dimensional Finite Element Analysis of Reinforced Concrete Members - Min Ho Kwon - 2000
The major objective of this study was to use the finite element method to study the cyclic response of slender, reinforced concrete shear walls. This makes
models which represent the cyclic response of concrete and reinforcing steel in shear walls were developed in this investigation. These material models were verified both at
the element and structural levels; the results of the finite element analyses were compared with the experimental data from several experimental programs. After the
material element method was satisfactorily tested and verified, the finite element method was used to extend the scope of the interpretation of the response of slender
reinforced concrete shear walls with different configurations, reinforcement details, and loading histories.

Nonlinear Finite Element Analysis of Reinforced Concrete Structure - Laura N. Loues - 2003
Nonlinear Finite Element Analysis of Reinforced Concrete Structures - Laura N. Loues - 2003
Nonlinear Layered Finite-Element Analysis of Reinforced-Concrete Plates and Shells - 1972
Three Dimensional Finite Element Analysis of Reinforced Concrete Members - Min Ho Kwon - 2000
Three Dimensional Finite Element Analysis of Reinforced Concrete Members - Min Ho Kwon - 2000
SP-237 CD Finite Element Analysis of Reinforced Concrete Structures - 2000
SP-237 CD Finite Element Analysis of Reinforced Concrete Structures - 2000
Interactive Finite Element Analysis of Reinforced Concrete - Victor Edourad Sassa - 1981
Interactive Finite Element Analysis of Reinforced Concrete - Victor Edourad Sassa - 1981
Finite Element Analysis of Reinforced Concrete Members - Yuan Liang Chen - 1985
Finite Element Analysis of Reinforced Concrete Members - Yuan Liang Chen - 1985
Grid Size Effects with Smear Cracking in Finite Element Analysis of Reinforced Concrete - Robert H. Dodds - 1982
Grid Size Effects with Smear Cracking in Finite Element Analysis of Reinforced Concrete - Robert H. Dodds - 1982
Non-linear Finite Element Analysis of Reinforced Concrete Floor Systems - Bashar S. Qubain - 1987
Non-linear Finite Element Analysis of Reinforced Concrete Floor Systems - Bashar S. Qubain - 1987

Practitioners' Guide to Finite Element Modelling of Reinforced Concrete Structures - fib - 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 reinfrocted structures, or in
investigating and naturally selecting amongst various repair alternatives. fib Bulletin 45 provides an overview of current concepts and techniques relating to computer-
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
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