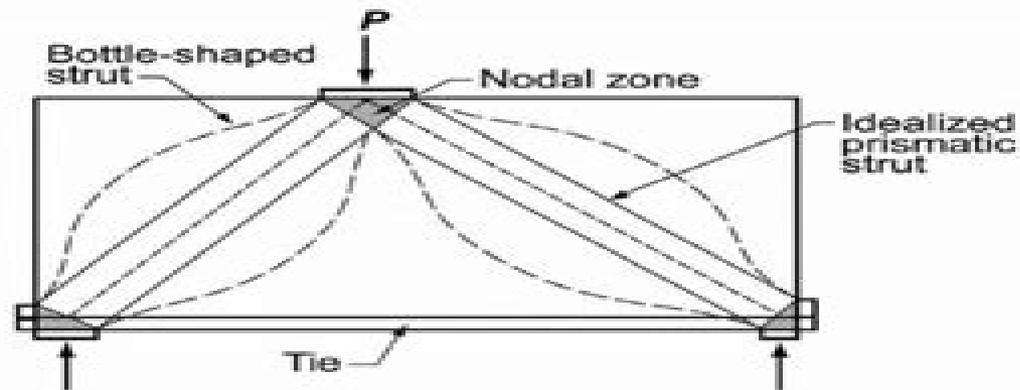


# Strut-and-Tie-Modeling in Reinforced Concrete Structures

## *Basics and Applications*



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Revised: 05.02.2013

# Strut And Tie Modeling In Reinforced Concrete Structures

**American Concrete Institute.  
Convention, American Concrete  
Institute. Subcommittee 445-1, Strut  
and Tie Models**

## **Strut And Tie Modeling In Reinforced Concrete Structures:**

Design Examples for Strut-and-tie Models fib Fédération internationale du béton, 2011 fib Bulletin 61 is a continuation of fib Bulletin 16 2002 Again the bulletin's main objective is to demonstrate the application of the FIP Recommendations Practical Design of Structural Concrete and especially to illustrate the use of strut and tie models to design discontinuity regions D regions in concrete structures Bulletin 61 presents 14 examples most of which are existing structures built in recent years Although some of the presented structures can be considered to be quite important and in some instances complex the chosen examples are not intended to be exceptional The main aim is to look at specific design aspects by selecting D regions of the presented structures that are designed and detailed according to the proposed design principles and specifications for the use of strut and tie models Two papers at the end of the bulletin deal with the role of concrete tension fields in modelling with strut and tie models and summarize the experiences gained by the Working Group in applying strut and tie models to the examples in the bulletin It is hoped that fib Bulletin 61 will be of interest to engineers involved in the design of concrete structures supporting the use of more consistent design and detailing tools such as strut and tie models

*A Comparison of Design Using Strut-and-tie Modeling and Deep Beam Method for Transfer Girders in Building Structures* Eric Skibbe, 2010 Strut and Tie models are useful in designing reinforced concrete structures with discontinuity regions where linear stress distribution is not valid Deep beams are typically short girders with a large point load or multiple point loads These point loads in conjunction with the depth and length of the members contribute to a member with primarily discontinuity regions ACI 318 08 Building Code Requirements for Structural Concrete provides a method for designing deep beams using either Strut and Tie models STM or Deep Beam Method DBM This report compares dimension requirements concrete quantities steel quantities and constructability of the two methods through the design of three different deep beams The three designs consider the same single span deep beam with varying height and loading patterns The first design is a single span deep beam with a large point load at the center girder The second design is the deep beam with the same large point load at a quarter point of the girder The last design is the deep beam with half the load at the midpoint and the other half at the quarter point These three designs allow consideration of different shear and STM model geometry and design considerations Comparing the two different designs shows the shear or cracking control reinforcement reduces by an average 13% because the STM considers the extra shear capacity through arching action The tension steel used for either flexure or the tension tie increases by an average of 16% from deep beam in STM design This is due to STM taking shear force through tension in the tension reinforcement through arching action The main advantage of the STM is the ability to decrease member depth without decreasing shear reinforcement spacing If the member depth is not a concern in the design the preferred method is DBM unless the designer is familiar with STMs due to the similarity of deep beam and regular beam design theory

**Structural Concrete** Salah El-Metwally, Wai-Fah Chen, 2017-10-02 This book

examines the application of strut and tie models STM for the design of structural concrete It presents state of the art information from fundamental theories to practical engineering applications and also provides innovative solutions for many design problems that are not otherwise achievable using the traditional methods *Performance-Based Optimization of Structures* Qing Quan Liang,2005-02-25 Performance Based Optimization of Structures introduces a method to bridge the gap between structural optimization theory and its practical application to structural engineering The Performance Based Optimization PBO method combines modern structural optimisation theory with performance based design concepts to produce a powerful technique for use in structural design This book provides the latest PBO techniques for achieving optimal topologies and shapes of continuum structures with stress displacement and mean compliance constraints The emphasis is strongly placed on practical applications of automated PBO techniques to the strut and tie modelling of structural concrete which includes reinforced and prestressed concrete structures Basic concepts underlying the development of strut and tie models design optimization procedure and detailing of structural concrete are described in detail Alternative approaches to topology optimization are also introduced The book contains numerous practical design examples illustrating the nature of the load transfer mechanism of structures **Examples for the Design of Structural Concrete with Strut-and-tie**

**Models** American Concrete Institute. Convention,American Concrete Institute. Subcommittee 445-1, Strut and Tie Models,2002 Prepared by members of ACI Subcommittee 445 1 Strut and Tie Models for sessions at the Fall Convention in Phoenix October 27 to November 1 2002 and sponsored by Joint ACI ASCE Committee 445 Shear and Torsion and ACI Committee 318 E Shear and Torsion **Static and Dynamic Analysis of Reinforced Concrete Structures** Norbert Jendzelovsky,Lenka Konecna,Alzbeta Grmanova,2017-06-14 Special topic volume with invited peer reviewed papers only

**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 Cape Town and since then brought together academics researchers and practitioners active in structural mechanics associated computation and structural engineering The main purpose of the conferences was to review recent achievements in the advancement of knowledge and understanding in these areas share the latest developments and address the challenges that the present and the future pose All major aspects of structural mechanics associated computation and structural engineering are addressed in the present volume including structural mechanics dynamics vibration impact buckling seismic response fluid structure interaction soil structure interaction mechanics of materials plasticity fracture fatigue creep shrinkage damage deterioration numerical computational modelling numerical methods formulations finite element modelling structural modelling material modelling simulations structural engineering and construction in the various

materials steel concrete timber masonry glass steel concrete composite fibre reinforced composite laminated composite design construction and operational considerations fire resistance seismic resistance loading safety and reliability codification design optimisation construction assembly monitoring maintenance repair retrofitting The structures dealt with include all sorts of buildings sports facilities bridges viaducts tunnels underground structures foundation structures coastal structures dams industrial towers and masts containment structures silos tanks and pressure vessels ship and aircraft structures motor vehicle structures mechanical components and biological structures Advances and Trends in Structural Engineering Mechanics and Computation is published as a book of extended abstracts and an accompanying CD ROM with the full papers and will be much of interest to engineers academics and researchers in civil structural mechanical and aerospace engineering and to those concerned with the analysis design construction and maintenance of engineering structures *Optimization and Control in Civil and Structural Engineering* B. Kumar, B. H. V. Topping, 1999 Contains a selection of papers presented at The Seventh International Conference on Civil and Structural Engineering and The Fifth International Conference on the Applications of Artificial Intelligence to Civil and Structural Engineering held concurrently from 13 15 September 1999 at Oxford England Structural Rehabilitation of Old Buildings Aníbal Costa, João Miranda Guedes, Humberto Varum, 2013-09-11 This present book describes the different construction systems and structural materials and elements within the main buildings typologies and it analyses the particularities of each of them including at the end general aspects concerning laboratory and in situ testing numerical modeling vulnerability assessment and construction maintenance **Design for Shear in Reinforced Concrete Using Strut-and-tie Models**, 2006 *Proceedings of the First International Conference on Advances in Structural Engineering and Mechanics* Chang-Koon Choi, William Courtney Schnobrich, 1999 ACI Structural Journal, 2009 **Advances in Civil Engineering, CEBM 2011** Jing Ying Zhao, 2011-05-31 Selected peer reviewed papers from 2011 International Conference on Civil Engineering and Building Materials CEBM 2011 July 29 31 2011 Kunming China **Proceedings of the Eighth International Conference on Civil and Structural Engineering Computing** B. H. V. Topping, 2001 Contains the extended abstracts of the contributed papers that were presented at the Eighth International Conference on Civil Structural Engineering Computing which was held in Eisenstadt Vienna Austria from 19 21 September 2001 The full length papers are available in electronic format on the accompanying CD ROM **Structural Concrete** Shuaib Haroon Ahmad, Roger Green, S. Ali Mirza, 2001 Conceptual Design of Structures, 1996 **Examples for the Design of Structural Concrete with Strut-and-tie Models** American Concrete Institute. Convention, American Concrete Institute. Subcommittee 445-1, Strut and Tie Models, 2002 Prepared by members of ACI Subcommittee 445 1 Strut and Tie Models for sessions at the Fall Convention in Phoenix October 27 to November 1 2002 and sponsored by Joint ACI ASCE Committee 445 Shear and Torsion and ACI Committee 318 E Shear and Torsion *Repair, Rehabilitation, and Maintenance of Concrete Structures, and Innovations in Design and Construction* V.

M. Malhotra,2000     **Design of Reinforced Concrete Structures** Alan Williams,2000 Here is a comprehensive guide and reference to assist civil engineers preparing for the Structural Engineer Examination It offers 350 pages of text and 70 design problems with complete step by step solutions Topics covered Materials for Reinforced Concrete Limit State Principles Flexure of Reinforced Concrete Beams Shear and Torsion of Concrete Beams Bond and Anchorage Design of Reinforced Concrete Columns Design of Reinforced Concrete Slabs and Footings Retaining Walls and Piled Foundations An index is provided     **ACI Manual of Concrete Practice** ,2005

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