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Reinforced and Prestressed Concrete FIB - Féd. Int. du Béton

Applies to the design of building and civil engineering structures in plain, reinforced and pre-stressed concrete. The code (for convenience referred to as EC2) is written in several parts: EN 1992 - 1 - 1; EN 1992 - 1 - 2; EN 1992 - 2; and EN 1992 - 3.

Structural & Construction Conf CRC Press

Bridge deck deterioration in the northern Midwest creates significant costs to state Departments of Transportation (DOT’s) in the region. The fundamental cause of the problem is low tensile strength and water permeable reinforced concrete resulting in deck cracking and ultimately reinforcing bar corrosion. Portland Cement Polymer Concrete (PCPC) combined with a design approach tailored to its advantages could virtually eliminate early deck deterioration and the associated costs providing an alternative asset management path for bridge decks. Bridge decks would no longer have to be removed from their substructure every fifteen years and replaced. The results would be higher quality, longer lasting bridge decks with lower life cycle costs. This project will demonstrate the feasibility and methodology of such a strategy. This project will develop a strategy that combines innovative concrete materials, novel design and cost analysis that enhances the longevity and reduces the life cycle cost of highway bridge decks. The project is expected to show significant life-cycle cost advantages to using a high performance bridge deck material.

Deformation and Progressive Failure in Geomechanics FIB - International Federation for Structural Concrete

Advances in Concrete Slab Technology documents the proceedings of the International Conference on Concrete Slabs held at Dundee University on April 3-6, 1979. This book discusses the influence of steel fiber-reinforcement on the shear strength of slab-column connections; sulfur-treated concrete slabs; yield line analysis of orthotropicaly reinforced exterior panels of flat slab floors; and behavior of flat slab/edge column joints. The design of multiple panel flat slab structures; structural behavior of floor slabs in shear wall buildings; shrinkage and cracking of concrete at early ages; and slab construction for HAB system modules are also elaborated. This text likewise covers the direct finishing of concrete slabs using the early age power grinding technique; application of vacuum dewatering to in-situ slab production; retexturing of concrete slabs; and fatigue resistance of composite precast and in situ concrete floors. This publication is a good reference for students and individuals concerned with the practices and research relating to slab technology.

Effect of Fibers on the Punching Shear Strength of Reinforced Concrete Slabs Elsevier

The purpose of this book is to provide a straightforward introduction to the principles and methods of design for concrete structures. It is directed primarily at students and young designers who require understanding of the basic theory and a concise guide to design procedures. The theory and practice described in the book are of a fundamental nature and will be of use internationally. Limit state concepts are used, and the calculations are in SI units throughout. The principal aim of the fifth edition has been to update the text to incorporate changes and amendments introduced in the 1997 version of BS8110 and to include new material such as pile cap design. A complete new chapter on composite construction has been introduced. Important equations that have been derived within the text are highlighted by an asterix adjacent to the equation number.

Punching of Structural Concrete Slabs CRC Press

fib Bulletin 81 reports the latest information available to researchers and practitioners on the analysis, design and experimental evidence of punching shear of structural concrete slabs. It follows previous efforts by the International Federation for Structural Concrete (fib) and its predecessor the Euro-International Committee for Concrete (CEB), through CEB Bulletin 168, Punching Shear in Reinforced Concrete (1985) and fibBulletin 12, Punching of structural concrete slabs (2001), and an international symposium sponsored by the punching shear subcommittee of ACI Committee 445 (Shear and Torsion) and held in Kansas City, Mo., USA, in 2005. This bulletin contains 18 papers that were presented in three sessions as part of an international symposium held in Philadelphia, Pa., USA, on October 25, 2016. The symposium was co-organized by the punching shear sub-committee of ACI 445 and by fib Working Party 2.2.3 (Punching and Shear in Slabs) with the objectives of not only disseminating information on this important design subject but also promoting harmonization among the various design theories and treatment of key aspects of punching shear design. The papers are organized in the same order they were presented in the symposium. The symposium honored Professor Emeritus Neil M. Hawkins (University of Illinois at Urbana-Champaign, USA), whose contributions through the years in the field of punching shear of structural concrete slabs have been paramount. The papers cover key aspects related to punching shear of structural concrete slabs under different loading conditions, the study of size effect on punching capacity of slabs, the effect of slab reinforcement ratio on the response and failure mode of slabs, without and with shear reinforcement, and its implications for the design and formulation in codes of practice, an examination of different analytical tools to predict the punching shear response of slabs, the study of the post-punching response of concrete slabs, the evaluation of design provisions in modern codes based on recent experimental evidence and new punching shear theories, and an overview of the combined efforts undertaken jointly by ACI 445 and fib WP 2.2.3 to generate test result databanks for the evaluation and calibration of punching shear design recommendations in North American and international codes of practice.

Resilient Infrastructure CRC Press

- Bridge type, behaviour and appearance David Bennett, David Bennett Associates · History of bridge development · Bridge form · Behaviour - Loads and load distribution Mike Ryall, University of Surrey · Brief history of loading specifications · Current code specification · Load distribution concepts · Influence lines - Analysis Professor R Narayanan, Consulting Engineer · Simple beam analysis · Distribution co-efficients · Grillage method · Finite elements · Box girder analysis: steel and concrete · Dynamics - Design of reinforced concrete bridges Dr Paul Jackson, Gifford and Partners · Right slab · Skew slab · Beam and slab · Box - Design of prestressed concrete bridges Nigel Hewson, Hyder Consulting · Pretensioned beams · Beam and slab · Pseduo slab · Post tensioned concrete beams · Box girders - Design of steel bridges Gerry Parke and John Harding, University of Surrey · Plate girders · Box girders · Orthotropic plates · Trusses - Design of composite bridges David Collings, Robert Benaim and Associates · Steel beam and concrete · Steel box and concrete · Timber and concrete - Design of arch bridges Professor Clive Melbourne, University of Salford · Analysis · Masonry · Concrete · Steel · Timber - Seismic analysis of design Professor Elnashai, Imperial College of Science, Technology and Medicine · Modes of failure in previous earthquakes · Conceptual design issues · Brief review of seismic design codes - Cable stayed bridges - Daniel Farquhar, Mott Macdonald · Analysis · Design · Construction - Suspension bridges Vardaman Jones and John Howells, High Point Rendel · Analysis · Design · Construction - Moving bridges Charles Birnstiel, Consulting engineer · History · Types · Special problems - Substructures Peter Lindsell, Peter Lindsell and Associates · Abutments · Piers - Other structural elements Robert Broome et al, WS Atkins · Parapets · Bearings · Expansion joints - Protection Mike Mulheren, University of Surrey · Drainage · Waterproofing · Protective coating/systems for concrete · Painting system for steel · Weathering steel · Scour protection · Impact protection - Management systems and strategies Perrie Vassie, Transport Research Laboratory · Inspection · Assessment · Testing · Rate of deterioration · Optimal maintenance programme · Prioritisation · Whole life costing · Risk analysis - Inspection, monitoring, and assessment Charles Abdunur, Laboratoire Central Des Ponts et Chaussées · Main causes of deterioration · Investigation methods · Structural evaluation tests · Stages of structural assessment · Preparing for recalculation - Repair and Strengthening John Darby, Consulting Engineer · Repair of concrete structures · Metal structures · Masonry structures · Replacement of structures

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Combined Punching Shear and Torsional Shear in Reinforced Concrete Slabs Punching shear of structural concrete slabsTechnical report

Punching is considered to be one of the most difficult problems in structural concrete design and mechanical models or theoretical analyses were developed rather late in the history of concrete research attempts. This fib Bulletin reviews the development of design models and theoretical analyses since the CEB Bulletin 168 Punching Shear in Reinforced Concrete - State-of-the-Art Report published in 1985. The role of the concrete tensile strength was specially addressed. In this respect the present bulletin is also following-up the CEB Bulletin 237 Concrete Tension and Size Effects - Utilisation of concrete tension in structural concrete design and relevance of size effect - Contributions from CEB Task Group 2.7 published in 1997. Apart from new theoretical developments a comprehensive databank for comparisons with experimental evidence is included. About 400 punching tests were critically reviewed and evaluated in a consistent manner. This is thought to be the first step towards a generally agreed selection of reliable tests. The evident value of such a data bank is illustrated by comparisons carried out between the data and some of the analytical proposals as well as empirical code formulas. List of contents : (1) Introduction, (2) Code equations, (3) Mechanical models for punching, (4) New developments for mechanical models, (5) Numerical investigations, (7) Comparison of mechanical models and test results of slabs without shear reinforcement, (8) Comparison of code rules and tests of flat slabs without shear reinforcement, (9) Comparison of codes, models and tests of flat slabs with shear reinforcement, (10) Experimental investigations, (11) Summary and conclusions, References, Appendices : (I) Databank on slabs without shear reinforcement, (II) Databank on slabs with shear reinforcement, (III) Comparison of test data with code rules, (IV) Comparison of test data with selected models, (V) Notations.

Steel Designers' Manual GRIN Verlag

Ultra-high performance concrete (UHPC) is a relatively new type of concrete that exhibits mechanical properties that are far superior to those of conventional concrete and in some cases rival those of steel. The main characteristics that distinguish UHPC from conventional reinforced concrete are its very high compressive strength (20 to 33 ksi), the addition of steel fibers which enables tension to be carried across open cracks without conventional reinforcing steel, and a very high resistance to corrosion and degradation. The mechanical properties of UHPC allow for smaller, thinner sections as compared to conventional reinforced concrete sections. However, as it is a new material, the use of UHPC has been limited to a few structural applications due primarily to the high cost of the material and the lack of established design guidelines. In previous research, a material model based on physical tests was used in conjunction with finite element models to develop an optimized cross-section for a prestressed UHPC girder for bridge applications. The cross-section is a double-tee with bulbs at the bottoms of the webs to accommodate the prestressing strands. As it is envisioned in bridge applications, the double-tees will be placed directly adjacent to one another, and the top flange will act as the riding surface after a thin asphalt overlay is placed. Based on the longitudinal compressive stresses, the top flange of the girder can be quite thin. However, there exists the possibility that a punching shear failure could occur from the application of a point load such as a wheel patch load if the flange is made too thin. The research reported herein was initiated to characterize the punching shear capacity of thin UHPC plates and to develop recommendations on the minimum top flange thickness for the optimized double-tee. Twelve small slabs (45 in x 45 in) were tested to failure to characterize the punching shear strength of UHPC. The variables considered were the slab thickness (2, 2.5, and 3 in) and loading plate dimensions (from 1 in x 1 in to 3 in x 3 in). The results of the testing were compared to several existing models for punching shear. The two equations that predicted strengths most reliably were the current ACI punching shear equation and a modified bolt pull-out equation. After evaluation of the test results, the minimum slab thickness required to prevent a punching shear failure in the top flange due to an 8 in x 20 in wheel patch was determined to be 1 in. Three larger slabs were also tested. These slabs had the same clear span length as the top flange of the optimized double-tee and were loaded with a wheel patch load. The slabs were all approximately 3 in thick and all failed in flexure rather than punching shear. It was concluded that the casting method has a strong influence on the orientation of the steel fibers, which in turn influences the flexural strength in orthogonal directions in the slab. The top flange thickness will be governed by transverse bending rather than punching shear, and the 3 in slabs were not able to support the full wheel load plus impact and load factor. The results of this research help in the continued optimization of a UHPC shape for use in highway bridges. If material use in the girder is minimized, UHPC bridges can become economically competitive with HPC bridges, but offer the benefits of more rapid construction and better durability.

Recommendations for the Inspection, Maintenance and Management of Car Park Structures Cambridge University Press

Objective of conference is to define knowledge and technologies needed to design and develop project processes and to produce high-quality, competitive, environment- and consumer-friendly structures and constructed facilities. This goal is clearly related to the development and (re)-use of quality materials, to excellence in construction management and to reliable measurement and testing methods.

Design of Reinforced Concrete Foundations Butterworth-Heinemann

- Scope - Responsibilities - Statutory requirements - Developing a long term inspection and maintenance strategy - Inspections and structural appraisals - Maintenance, repair and upgrading or replacement - Health and safety of personnel on site - Reporting the structural appraisal - References - Appendix: Structural deterioration, design deficiencies and safety

Laboratory Manual on Testing of Engineering Materials Thomas Telford

To assess the two-way shear resistance, or punching shear strength, of reinforced concrete slabs, code provisions fitted from experimental data are typically employed. The experimental data forming the bases of these provisions have generally consisted of isolated slab-column connection tests that seek to represent the negative moment region of a flat plate slab. This research is focused on exploring the variation in the punching performance of slab-column connections when the typical testing conditions used to investigate isolated slab specimen are varied in a manner that produces alternative sectional loading conditions within the column connection region. To accomplish this, an innovative testing apparatus is introduced that permits alternative combinations of slab bending moment to out-of-plane shear force ratios to be applied to the slab-column connection. Results are presented from an experimental program conducted at the Ferguson Structural Engineering Laboratory (FSEL) of The University of Texas at Austin and an analysis is presented comparing the results from the tests with estimations made from current standards, the Critical Crack Shear Theory (CSCT), and also from numerical models. The data obtained from the experimental program are used to scrutinize current design and analysis procedures, and to shed light on the significance of the sectional loading conditions in the light of flat plate connection shear resisting performance.

Tubular Structures XVI KIT Scientific Publishing

The recent worldwide boom in industrial construction and the corresponding billions of dollars spent every year in industrial, oil, gas, and petrochemical and power generation project, has created fierce competition for these projects. Strong management and technical competence will bring your projects in on time and on budget. An in-depth explorat

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How to Design Concrete Structures Using Eurocode 2 fib Fédération internationale du béton

Punching shear of structural concrete slabsTechnical reportFIB - Féd. Int. du Béton

Punching shear of structural concrete slabs Transportation Research Board

Progressive failure has been a classical problem in the field of geotechnical engineering and has attracted considerable attention in connection with slope stability and foundation problems. It is associated with strain localization or shear banding and is also related to damage in material structures. As knowledge of the progressive failure mechanism increases, it is now necessary to establish effective communications between researchers and engineers. The International Symposium on Deformation and Progressive Failure in Geomechanics provided an opportunity for discussing recent advances in this area. A total of 136 papers were contributed from 22 countries. As well as these, the symposium proceedings also contain 8 interim technical reports on the subject by the members of the Asian Technical Committee of the International Society for Soil Mechanics and Foundation Engineering and the Japanese Geotechnical Society National Committee on Progressive Failure in Geo-structures.

Punching shear in reinforced concrete state of the art report Springer Nature

Primarily Written For The Students Of Civil Engineering And Practising Engineers Involved In The Testing Of Building Materials, The Manual Describes In Straight-Forward And Systematic Manner The Testing Of Engineering Materials. Each Test Given In The Manual Outlines The Objectives, Theory, Apparatus Requirements, Procedures, Precautions, Questions For Discussion And Observations And Calculations. For All The Tests Specified, The Procedure Is Based On The Relevant Indian Standard Code Of Practice Which Is The Usual Accepted Method Of Performing The Tests. The Manual Can Be Used By Students And Field Engineers For Keeping The Record Of Tests Performed In The Laboratory. Since Each Test Requires A Different Reference Of The Indian Standard Codes, It May Not Be Practically Feasible In The Field Conditions And Therefore This Manual Comes Quite Handy For These Situations.It Will Be Invaluable And Indispensable Manual For Imparting Effective Instructions To Diploma And Under Graduate Level Students As Also To Field Engineers.

Punching Shear in Reinforced Concrete Slabs New Age International

This study summarizes experimental results of the punching shear behavior of reinforced concrete slab-column connections containing fiber reinforcement. Fiber reinforcement is particularly attractive and beneficial for concrete, especially where shear stresses are involved. Tests are reported on simply supported slab specimens loaded through a stub column to study the effect of several parameters, namely, type, volume, fraction, and aspect ratio of fibers. The experimental tests on reinforced concrete slabs showed that fiber reinforcement can contribute significantly to the enhancement of punching shear strength and ductility of concrete structural members. This increase is function of the fiber volume and fiber type. A simple empirical relationship describing the effect of steel fibers on the punching shear strength of slab-column connections is derived based on the results of this test and other experimental results reported in technical literature.

Characterization of the Punching Shear Capacity of Thin Ultra-high Performance Concrete Slabs Elsevier

Presentation of the latest scientific and engineering developments in the field of tubular steel structures. Covers key and emerging subjects of hollow structural sections, such as: static and fatigue behaviour of connections/joints, concrete filled hollow sections and composite tubular members, offshore structures, earthquake resistance,

Advances in Concrete Slab Technology Thomas Telford

Master's Thesis from the year 2018 in the subject Engineering - Civil Engineering, grade: very good, Mekelle University (Ethiopian Institute of Technology), course: Msc in structural engineering, language: English, abstract: This thesis presents study of punching shear capacity of flat slab-column junctions. A three dimensional nonlinear finite element program based on 8 node solid elements was used to carry out the nonlinear analysis of flat-slab models with and without gabion-mesh. The effect of gabion arrangements for punching and the ultimate load prediction for each was presented in this thesis. The results obtained from abaqus were compared to code prediction results, and the failure mode also compared to experimental and code predicted failure modes. The predicted mode of failure and other responses are in a good correlation to euro code predicted values. In addition to punching gabion has greater resistance to flexure by increasing the stiffness of the slab. Finally it is concluded that using hexagonal gabion mesh at tension part is easy, effective and can solve construction difficulty of drop panels and one layer gabion can reduce 10mm of slab thickness. Punching strength is a critical point in the design of flat slabs and due to the lack of a theoretical method capable of explaining this phenomenon, empirical formulations presented by codes of practice are still the most used method to check the punching resistance of slab-column connections. Flat slab is a reinforced concrete slab supported directly by concrete columns without the use of beams. This type of slab is appropriate for most floor situations and also for irregular column layouts. Because of its aesthetic view, simplicity for construction, reduction of foundation cost, this becomes very common and competitive structural system for cast-in-place slabs in buildings. Flat plates allow easy and flexible partitioning of space and reduce the overall height of tall buildings. But since the load is directly transferred from slab to column due to high localized force at the column punching effect or punching shear failure is critical. This type of failure is catastrophic because no visible signs are shown prior to failure. To increase the punching resistance of the flat slab several methods have been used, such as drop panel, column capital, column head and shear reinforcements such as shear stud and stirrups. In our country Ethiopia the first three mechanisms are used to increase the resistance of punching shear in flat slabs but shear reinforcements are being used in other countries such as America and British.

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REVIEW OF CHECKING PUNCHING SHEAR STRENGTH BY THE ACI CODE

• I have never really understood what separates a young adult book from a plain old adult book. Oh I know there's a certain difference in style of writing, words chosen based on the expected vocabulary of the target audience, but beyond that it's just plots. And who can guess what plot will appeal to who? Some of the books I treasured as a young adult remain favorites today because they're simply good books. But this novel, though marketed and sold for young adults, perhaps even written for them, is one I think can safely be said to appeal to older readers as well."The Raging Quiet" is a novel about outsiders. Marnie is a newlywed when her much older husband dies, leaving her alone and without resources in a hostile and enclosed village. The friends she manages to make are the local priest and the village madman-who Marnie discovers quickly, is not mad at all-only deaf and re-names Raven. But soon her "magical" abilities to communicate with Raven make the locals suspense, and have Marnie on trial for her life.I must say that when I first read this book when I was eleven, I was disturbed by some of the content. So the official warning to parents: this book includes not descriptions of but illusions to rape, sex and a rather descriptive scene of what would now be construed as torture. It's probably not fit for every kid to read. Another reason why I see it as a line crosser.I enjoyed this the first time I read it but liked it even better the second time. Adult or child this is a good book that's well written.Four stars.

• I have been reading Julie Garwood's novels for the past six years, and I love escaping with her books. They are always fun, unique, and they never let me down. Castles remains my number-one favorite of all her books. It's clever and funny, and the relationship between Colin and Alesandra is so romantic and endearing. And I love that Julie Garwood puts such strong emphasis in all her books on having morals, values, honor and loyalty. Her characters are always "flawed to perfection", as Colin describes his princess in Castles. I especially love the fact, that unlike so many other romance novels I have unfortuneatly read, the relationship between Colin and Alesandra isn't soley based on lust. They have a real connection that the reader can actually feel, which is Amazing!