



Punching Shear Strength Of Interior Concrete Slab Column

VM Jensen



Punching Shear Strength Of Interior Concrete Slab Column:

Punching shear of structural concrete slabs FIB - Féd. Int. du Béton, 2017 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 fib Bulletin 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

Punching Shear in Reinforced Concrete Slabs Maria Anna Polak, 2005 [Civil Engineering and Urban Planning IV](#) Yuan-Ming Liu, Dong Fu, Zhen-Xin Tong, Zhi-Qing Bao, Bin Tang, 2016-10-28 Civil Engineering and Urban Planning IV includes the papers presented at the 4th International Conference on Civil Engineering and Urban Planning CEUP 2015 Beijing China 25 27 July 2015 The contributions from experts and world renowned scientists cover a wide variety of topics Civil engineering Architecture and urban planning Transpor **ADVANCES IN MECHANICS AND MATERIALS** Sanjaya Kumar Patro, Amar Nath Nayak, Ramakanta Panigrahi, 2016-12-09 Veer Surendra Sai University of Technology VSSUT Burla is one among the foremost universities of India in the field of higher education basic and applied research The foundation of this iconic college was laid in 1956 to cater the maintenance and upkeep of the mighty Hirakud Dam worlds longest earth dam at Burla The university now has sixteen academic departments ion various disciplines in engineering and sciences The

International Conference on Advances in Mechanics and Materials ICRAMM 2016 was organized at the Veer Surendra Sai University of Technology Burla Odisha during 17-18 December 2016. Over the years tremendous progress has been made in the fields related to mechanics and materials due to rapid advancements in analytical, experimental and computational facilities. The outcome has immensely benefited the industries, research and academic organizations in numerous ways. The International Conference on Recent Advances in Mechanics and Materials ICRAMM 2016 will provide a common platform for academicians, engineers, scientists and technologists to come together and discuss the progress made on various aspects of mechanics and materials. Realizing the importance of recent developments in the areas of recent advances in mechanics and materials, the conference ICRAMM 2016 focuses on following major themes: Computational mechanics, Experimental mechanics, Fluid mechanics, Geomechanics, Structural mechanics, Continuum mechanics, Coupled field problems, Structural and Soil Dynamics, Vibration Control, Structural Health Monitoring, Rehabilitation and Retrofitting of structures, Composite Materials, Cement Concrete Composites and Sustainable construction materials. The papers included in this conference proceeding reflect in general the need for emerging technologies and growing interest in structural mechanics and materials to tailor it to meet the requirements for the varying application.

Tubular Structures XII Z.Y. Shen, Y.Y. Chen, Xian-zhong Zhao, 2008-09-11. 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.

Punching Shear Strength of Reinforced Concrete Slab Xiao-Yun Shao, 1993. **Enhancement of flat slabs' shear resistance using gabion mesh** Hailemeleket Haileslassie, 2020-10-08. 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

Journal of the American Concrete Institute American Concrete Institute,1930

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Advances in Concrete Slab Technology documents the proceedings of the International Conference on Concrete Slabs held at Dundee University on April 3 6 1979

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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

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Reinforced Concrete Design George Philip Manning,1924

Reinforced Concrete and Masonry Structures William Spaulding Kinne,1924

This book delves into Punching Shear Strength Of Interior Concrete Slab Column. Punching Shear Strength Of Interior Concrete Slab Column is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Punching Shear Strength Of Interior Concrete Slab Column, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 1: Introduction to Punching Shear Strength Of Interior Concrete Slab Column
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 - Chapter 4: Punching Shear Strength Of Interior Concrete Slab Column in Specific Contexts
 - Chapter 5: Conclusion
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