

The background is a faded architectural drawing of a building floor plan. A specific rectangular opening in a beam is highlighted with a thick black border. To the right of the plan, there is a 3D perspective view of a cylindrical concrete column. The word 'Entrance' is written on the side of the column. The overall image has a blue-grey tint.

DESIGNING CONCRETE BEAMS WITH RECTANGULAR OPENINGS

Concrete Beams With Openings

Kai Jun Liang



Concrete Beams With Openings:

Concrete Beams with Openings M. A. Mansur, Kiang-Hwee Tan, 1999-01-29 This book compiles state of the art information on the behavior analysis and design of concrete beams containing transverse openings Discussions include the need effects and classification of openings as well as the general requirements for fulfilling design pure bending combined bending and shear illustrated with numerical examples torsion alone or in combination with bending and shear large rectangular openings as well as opening size and location on beam behavior methods for analyzing ultimate strength and serviceability requirements effects of torsion in beams large openings in continuous beams and their effects on possible redistribution of internal forces as well as guidelines and procedures for the design of such beams effect of prestressing on the serviceability and strength of beams with web openings design against cracking at openings and ultimate loads Concrete Beams with Openings serves as an invaluable source of information for designers and practicing engineers especially useful since little or no provision or guidelines are currently available in most building codes *Strength and Stiffness of Continuous Reinforced Concrete Beams with Openings* Yen Fong Lee, 1989 *Analysis of Openings in Reinforced Concrete Beams* Surendar Mohan Malhotra, 1969 **Large Rectangular Web Openings in Reinforced Concrete Beams** Frederick David Edmonds, 1974 **FEM Analysis (3D) of Reinforced Concrete Beam with Openings** Kai Jun Liang, 2015 Concrete beam with openings usually use to provide building services such as conduits and pipes to pass through the beam so that the layout on water reticulation and electrical system will be more systematic It also provide the ease of maintenance on building utility and reduces the financial during construction of high rise building However beam with opening experience great losses of load capacity In order to regain such losses the strengthening method is investigated so that the strength of the concrete beam will be able to cover to the maximum In this study the behavior of the openings were investigated in terms of load deflection crack pattern and stress distribution The simulation of strengthening concrete beam with openings by using CFRP laminates were conducted on RC beam with openings There were three different types of beam that was analyzed in this study which were solid RC beam RC beam with openings and the strengthening RC beam with openings by using CFRP laminates They were modelled using finite element software ANSYS 12.0 in three degree of freedom The location of the openings distinguished into zero distance 140 mm and 280 mm from the supports The beams were analyzed under four points loading The result from numerical analysis was compared with the experimental result The un strengthened RC beams were found out that the beam reduced the ultimate load capacity at about 67-80% of the control beam When the location of the opening was shifted further away from the support the beam experienced less reduction of the ultimate load of the solid beam Thus the critical location of the opening was concluded at the face of the support However whenever the CFRP was installed around the opening region The beam was able to fortify and regained at about 34-44% of ultimate load of the solid beam Even though the beam was applied with CFRP laminates they eventually failed on the shear zone In conclusion this

research was able to prove that the beam was fortified by the CFRP strengthening method A good agreement between numerical result and experimental result in literature was obtained based on the load deflection relationship

Concrete Beams with Small Openings Under Bending and Shear Wei Weng,1998 **The Effect of Openings in the Web of Reinforced Concrete Beams** R. Servasingh,1980 **Analysis and Design of Reinforced Concrete Beams with Web Openings** Loon Meng Huang,1992 **Behaviour of Reinforced Concrete Beams with Transverse Circular Openings** A.F. Kabir,1970 **PRO 32: International Conference on Advances in Concrete and Structures - ICACS 2003 (Volume 2)** Ying-shu Yuan,Surendra P. Shah,Heng-lin Lü,2003 **Behaviour and Design of Reinforced Concrete Beams with Large Openings Under Combined Bending and Torsion** M. A. Mansur,1982 Recent Advances in Civil Engineering for Sustainable Communities N. Vinod Chandra Menon,Sreevalsa Kolathayar,Hugo Rodrigues,K. S. Sreekesava,2024-03-25 This book presents select proceedings of the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development IACESD 2023 The topics covered include geographic information systems GIS and building information modeling BIM integration of numerical methods for fluid flow modeling and the revolutionary potential of 3D printing within the construction industry This book serves as a resource material for researchers and industry professionals interested in developing solutions for sustainable and resilient infrastructure that aims for communities with Net Zero Targets **Recent Advances in Structural Engineering** K. S. Sreekesava,Sreevalsa Kolathayar,N. Vinod Chandra Menon,2024-03-27 This book presents select proceedings of the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development IACESD 2023 hosted under the aegis of the Group of Twenty G20 and Civil 20 C20 at Jyothy Institute of Technology Bengaluru India The topics covered in this book include innovative design approaches advanced materials and cutting edge technologies aimed at enhancing the resilience of structures against various hazards such as seismic events hurricanes floods and extreme weather conditions It also covers topics such as structural integrity and longevity of buildings and infrastructure advanced monitoring systems data analytics and intelligent structural health monitoring This book is useful for researchers and professionals in the field of structural engineering Static and Dynamic Responses of Prestressed Concrete Beams with Openings [microform] Hany Ahmed Aly Abdalla,1993 Ultimate Load Behaviour of Reinforced Concrete Beams with Rectangular Web Openings Kai-Yuen Wong,1984 **Ultimate Load Behaviour of Reinforced Concrete Beams with Rectangular Web Openings** K.-Y. Wong,1984 **Technologies for Sustainable Buildings and Infrastructure** B. R. Jayalekshmi,K. S. Nanjunda Rao,G. S. Pavan,2024-09-19 This book presents select proceedings of the International Conference on Sustainable Infrastructure Innovations Challenges and Opportunities 2023 SIIOC 2023 The topics covered include behavior of masonry and RC buildings under earthquakes performance of concrete bricks and blocks manufactured with non organic industrial wastes bamboo for construction composites for construction and finite element simulations on buildings and special structures The

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