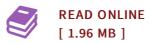




Punching Shear Strength of GFRP-Reinforced Flat Slabs Structures

By Mohamed Hassan

LAP Lambert Academic Publishing Jul 2016, 2016. Taschenbuch. Book Condition: Neu. 220x150x12 mm. This item is printed on demand - Print on Demand Neuware - The design of flat slabs is often compromised by their ability to resist punching shear stresses at slab-column connections. Deterioration of concrete structures due to corrosion of steel limits the service-life and increases the rehabilitation costs and may lead to substantial damages and catastrophic collapses. The use of fiber-reinforced polymer (FRP) bars instead of steel bars, especially where steel corrosion is a major concern, has been effective in reducing maintenance costs and extending the service life of structures. This book offers an essential background for a thorough understanding of the general punching shear behavior of twoway slabs reinforced with FRP bars. Comprehensive experimental testing on simulated two-way slabs with an extensive parametric study was covered. Currently, punching shear design equations for FRP-reinforced two-way slabs reinforced with FRP shear reinforcement are not available in FRP codes. Using FRP stirrups as shear reinforcement in the FRPreinforced flat slabs and evaluating their contribution to the punching shear capacity was addressed. A new model for designing two-way flat slabs reinforced with FRP bars and stirrups was proposed. 200 pp....



Reviews

This written ebook is fantastic. It is probably the most incredible ebook we have read. Its been written in an extremely basic way in fact it is just following i finished reading this publication where basically modified me, affect the way i think.

-- Howell Reichel

This book will never be easy to start on looking at but quite entertaining to read. It is actually packed with wisdom and knowledge It is extremely difficult to leave it before concluding, once you begin to read the book.

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