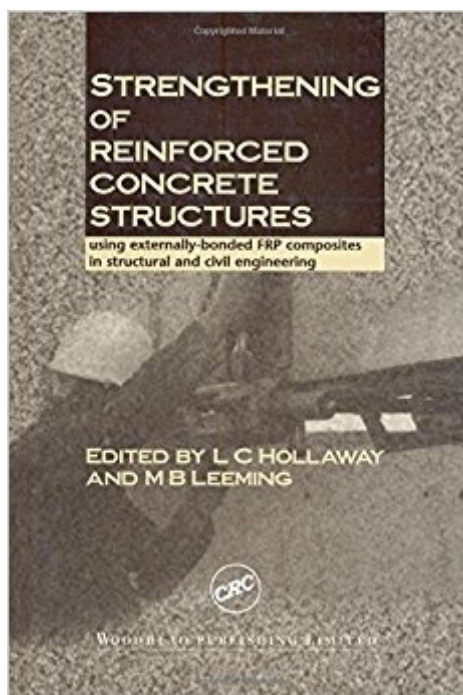


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Strengthening Of Reinforced Concrete Structures: Using Externally-Bonded Frp Composites In Structural And Civil Engineering (Woodhead Publishing Series In Civil And Structural Engineering)



Synopsis

The in situ rehabilitation or upgrading of reinforced concrete members using bonded steel plates is an effective, convenient and economic method of improving structural performance. However, disadvantages inherent in the use of steel have stimulated research into the possibility of using fibre reinforced polymer (FRP) materials in its place, providing a non-corrosive, more versatile strengthening system. This book presents a detailed study of the flexural strengthening of reinforced and prestressed concrete members using fibre reinforced polymer composite plates. It is based to a large extent on material developed or provided by the consortium which studied the technology of plate bonding to upgrade structural units using carbon fibre / polymer composite materials. The research and trial tests were undertaken as part of the ROBUST project, one of several ventures in the UK Government's DTI-LINK Structural Composites Programme. The book has been designed for practising structural and civil engineers seeking to understand the principles and design technology of plate bonding, and for final year undergraduate and postgraduate engineers studying the principles of highway and bridge engineering and structural engineering. Detailed study of the flexural strengthening of reinforced and prestressed concrete members using fibre reinforced polymer composites. Contains in-depth case histories.

Book Information

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Consider this a good reference for one interested in looking at composites and FRP use within the

Len C. Holloway is Professor of Composite Structures at the University of Surrey, UK and Visiting Professor in the Department of Civil and Environmental Engineering at the University of Southampton, UK .Mike Leeming is a Consultant at Mouchel Consulting Ltd, West Byfleet, UK.

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