

Guide Examples for Design of Concrete Reinforced with FRP Bars

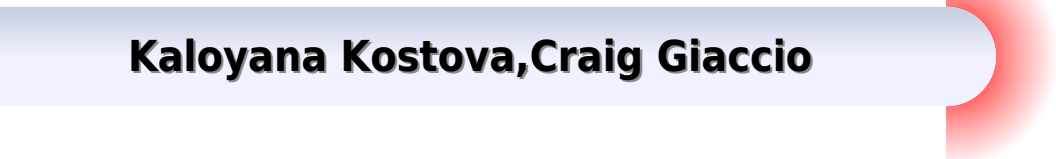
by W.K. Feeser and V.L. Brown

Synopsis: This paper presents design examples that illustrate the interaction of design parameters, to examine some of the more critical issues and challenges that arise when designing FRP-RC to satisfy ultimate strength and serviceability criteria using the ACI 440.1R-03 *Guide*. A spreadsheet program was written for flexural and serviceability analysis and design of concrete sections reinforced with a single layer of glass or carbon FRP bars. Analysis and design examples were developed and design aids were constructed to assist in economically and efficiently sizing FRP-reinforced concrete members. Potential difficulties that arise from the inherent nature of FRP-reinforced concrete failure modes have been identified and explored.

Keywords: codes and standards; concrete design; FRP reinforcement

Design Guide For Frp

Kaloyana Kostova, Craig Giaccio



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Design Guide for FRP Composite Connections Ayman S. Mosallam, 2011 Sponsored by the Construction Institute of ASCE This Manual of Practice covers major issues related to the analysis and design of composite joints and frame connections manufactured from fiber reinforced polymer FRP composites in general and pultruded PFRP composites in particular Topics include design philosophy and design considerations for structural composite members and connections basic information and research and development work on the mechanics of fasteners and bolted composite joints analysis and design methods for bolted composite joints basic physical and mechanical information on structural adhesives and bonded composite joints analysis and design methods for bonded composite joints structural performance combined bolted bonded joints basic information and research and development related to PFRP framing connections analysis and design methods for PFRP framing connections and numerical analysis review of available finite element codes suitable for modeling and designing composite frame structures MOP 102 addresses issues that are lacking in other national and international standards design manuals and technical publications It will be valuable to structural engineers designing with FRP or PFRP composites

Composites for Construction Lawrence C. Bank, 2006-07-21 The first textbook on the design of FRP for structural engineering applications Composites for Construction is a one of a kind guide to understanding fiber reinforced polymers FRP and designing and retrofitting structures with FRP Written and organized like traditional textbooks on steel concrete and wood design it demystifies FRP composites and demonstrates how both new and retrofit construction projects can especially benefit from these materials such as offshore and waterfront structures bridges parking garages cooling towers and industrial buildings The code based design guidelines featured in this book allow for demonstrated applications to immediately be implemented in the real world Covered codes and design guidelines include ACI 440 ASCE Structural Plastics Design Manual EUROCOMP Design Code AASHTO Specifications and manufacturer published design guides Procedures are provided to the structural designer on how to use this combination of code like documents to design with FRP profiles In four convenient sections Composites for Construction covers An introduction to FRP applications products and properties and to the methods of obtaining the characteristic properties of FRP materials for use in structural design The design of concrete structural members reinforced with FRP reinforcing bars Design of FRP strengthening systems such as strips sheets and fabrics for upgrading the strength and ductility of reinforced concrete structural members The design of trusses and frames made entirely of FRP structural profiles produced by the pultrusion process

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durability and service life followed by a current review of sustainability in infrastructure design **Guidelines and Recommended Practices for Fiber-reinforced-polymer [FRP] Architectural Products** ,2016 The purpose of these industry guidelines is to provide accurate information to architects engineers specifiers and owners This information assists in the planning preparation of specifications design execution and supervision of the manufacture and installation of Fiber Reinforced Polymer FRP composites architectural products The goal of these guidelines is to provide an understanding of FRP products to further ensure high quality parts and components as well as uniform procedures An additional purpose of this guide is to assist the architect engineer specifier and building code official in designing and evaluating non load bearing FRP composite parts It is by no means intended to be a comprehensive design guide and covers only the most fundamental combinations of fiber resin and assembly details Scope note

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