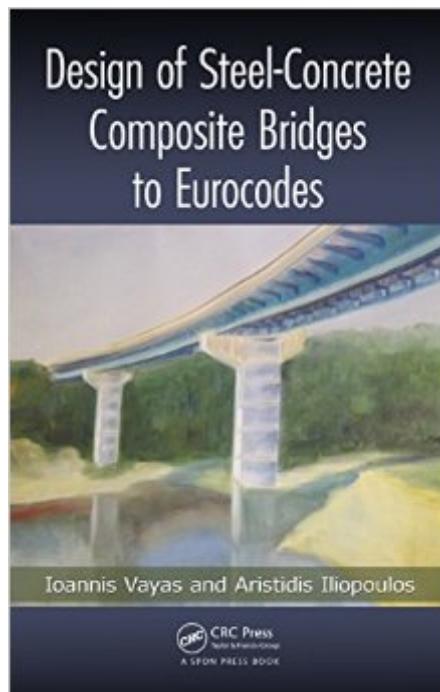


The book was found

# Design Of Steel-Concrete Composite Bridges To Eurocodes



## Synopsis

Combining a theoretical background with engineering practice, Design of Steel-Concrete Composite Bridges to Eurocodes covers the conceptual and detailed design of composite bridges in accordance with the Eurocodes. Bridge design is strongly based on prescriptive normative rules regarding loads and their combinations, safety factors, material properties, analysis methods, required verifications, and other issues that are included in the codes. Composite bridges may be designed in accordance with the Eurocodes, which have recently been adopted across the European Union. This book centers on the new design rules incorporated in the EN-versions of the Eurocodes. The book addresses the design for a majority of composite bridge superstructures and guides readers through the selection of appropriate structural bridge systems. It introduces the loads on bridges and their combinations, proposes software supported analysis models, and outlines the required verifications for sections and members at ultimate and serviceability limit states, including fatigue and plate buckling, as well as seismic design of the deck and the bearings. It presents the main types of common composite bridges, discusses structural forms and systems, and describes preliminary design aids and erection methods. It provides information on railway bridges, but through the design examples makes road bridges the focal point. This text includes several design examples within the chapters, explores the structural details, summarizes the relevant design codes, discusses durability issues, presents the properties for structural materials, concentrates on modeling for global analysis, and lays down the rules for the shear connection. It presents fatigue analysis and design, fatigue load models, detail categories, and fatigue verifications for structural steel, reinforcement, concrete, and shear connectors. It also covers structural bearings and dampers, with an emphasis on reinforced elastomeric bearings. The book is appropriate for structural engineering students, bridge designers or practicing engineers converting from other codes to Eurocodes.

## Book Information

File Size: 40126 KB

Print Length: 584 pages

Publisher: CRC Press; 1 edition (August 29, 2013)

Publication Date: August 29, 2013

Sold by: Digital Services LLC

Language: English

ASIN: B00EYRHD3C

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #1,130,818 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #125  
in Books > Engineering & Transportation > Engineering > Civil & Environmental > Bridges #213  
in Books > Engineering & Transportation > Engineering > Materials & Material Science > Concrete  
#237 in Kindle Store > Kindle eBooks > Arts & Photography > Architecture > Building Types &  
Styles

## Customer Reviews

A very detailed review of Steel Concrete composite bridges discussing all the updates included on the new Eurocode. Abundant examples that will be very helpful to new and experienced designers of this type of bridge structures. Altogether , a very good reference to have on your library.

[Download to continue reading...](#)

Design of Steel-Concrete Composite Bridges to Eurocodes Designers' Guide to Eurocode 8: Design of Bridges for Earthquake Resistance (Designers' Guide to Eurocodes) Tall Building Design: Steel, Concrete, and Composite Systems Seismic Design Aids for Nonlinear Pushover Analysis of Reinforced Concrete and Steel Bridges (Advances in Earthquake Engineering) The Men of Steel Anthology: The Men of Steel (special edition 2015 includes new release Raising Steel: Momma Joe's story ) Structural Analysis and Design of Tall Buildings: Steel and Composite Construction Principles of Structural Design: Wood, Steel, and Concrete, Second Edition Techniques of Staircase Construction: Technical and Design Instructions for Stairs Made of Wood, Steel, Concrete, and Natural Stone Hardening, Tempering, Annealing and Forging of Steel: A Treatise on the Practical, Treatment and Working of High and Low Grade Steel (Classic Reprint) Nonlinear Analysis of Concrete-Filled Steel Tubular Columns Effect of Chloride & Temperature on Rusting of Steel Reinforced Concrete 2nd Ed Black & Decker The Complete Guide to Concrete & Masonry, 4th Edition: Build with Concrete, Brick, Block & Natural Stone (Black & Decker Complete Guide) Corrosive Signs: Essays on Experimental Poetry (Visual, Concrete, Alternative) (Visual, Concrete, Alternative) Seismic Design and Retrofit of Bridges Seismic Design and Assessment of Bridges: Inelastic Methods of Analysis and Case Studies: 21 (Geotechnical, Geological and Earthquake Engineering) Design and Analysis of Composite Structures: With Applications to Aerospace

Structures Design and Analysis of Composite Structures (AIAA Education) Introduction to Composite Materials Design, Second Edition Concrete Mix Design (Mix Design Methods Book 1) Creative Plans for Yard and Garden Structures: 42 Easy-To-Build Designs for Gazebos, Sheds, Pool Houses, Playsets, Bridges and More!

[Dmca](#)