

A2 Determination of creep and shrinkage values on an example composite highway bridge

1. Purpose of example

The values of creep and shrinkage of the concrete deck slab of a composite highway bridge are calculated at different time periods in the age of the concrete. For the corresponding values of creep and shrinkage and types of loading, the corresponding values of modular ratio, n_L , and the shrinkage strains are determined. Also, the primary effects of shrinkage are calculated. In the example, the following cases are considered:

- calculation of the modular ratio n_L for permanent action not changing with time. Two ages are considered: the first loading, which is applied at the age of $t_0 = 28$ days, and the end of the design life, for which it is assumed that $t = \infty$.
- calculation of the modular ratio n_L for permanent action not changing with time at bridge opening. Two ages are considered: the age at which the permanent actions are imposed, which is 28 days ($t_0 = 28$ days), and the age at opening to traffic, which is 63 days ($t = 63$ days).
- calculation of the modular ratio n_L for shrinkage at $t = \infty$ and the value of the total shrinkage deformation at $t = \infty$ denoted as $\varepsilon_{cs}(\infty)$. The age of concrete at the first loading is $t_0 = 1$ day (the beginning of drying shrinkage).
- calculation of the modular ratio n_L for shrinkage at bridge opening, for which the age is 63 days ($t = 63$ days) and the value of the total shrinkage deformation at $t = 63$ denoted as $\varepsilon_{cs}(63)$. The age of concrete at the first loading is $t_0 = 1$ day (the beginning of drying shrinkage).
- calculation of the primary effects of shrinkage only for the long-term situation.

2. Cross-section

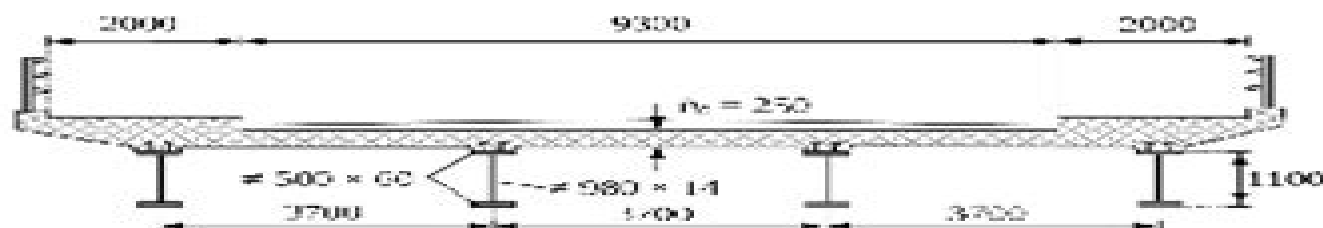


Figure A2.1 Cross-section of composite bridge

Composite Structures According To Eurocode 4 Worked Examples

**Darko Dujmović, Boris Androić, Ivan
Lukačević**



Composite Structures According To Eurocode 4 Worked Examples:

Composite Structures According to Eurocode 4 Darko Dujmović, Boris Androić, Ivan Lukačević, 2015 **Composite Structures according to Eurocode 4** Darko Dujmovic, Boris Androic, Ivan Lukacevic, 2015-01-20 The use of composite structures in construction is increasing The optimized combination of the two materials concrete and steel produces particularly cost efficient structures This book presents a large number of numerical examples with detailed explanations of the provisions of Eurocode 4 It deals with the most common structural components in building construction beams columns and slabs Furthermore comprehensive chapters provide insight into the topics of creep and shrinkage as well as fatigue This book enables the reader to efficiently perform analyses of composite structures It is a valuable reference book for professionals as well as an outstanding means for students to become familiar with the Eurocode 4 Composite Structures According to Eurocode 4 Darko Dujmović, Boris Androić, Ivan Lukačević, 2015 The use of composite structures in construction is increasing The optimized combination of the two materials concrete and steel produces particularly cost efficient structures This book presents a large number of numerical examples with detailed explanations of the provisions of Eurocode 4 It deals with the most common structural components in building construction beams columns and slabs Furthermore comprehensive chapters provide insight into the topics of creep and shrinkage as well as fatigue This book enables the reader to efficiently perform analyses of composite structures It is a valuable reference book for professionals as well as an outstanding means for students to become familiar with the Eurocode 4 Designers' Handbook to Eurocode 4: 1. Design of composite steel and concrete structures Roger Paul Johnson, D. Anderson, 1993 Provides detailed information for civil and structural engineers who want to use Eurocode 4 Part 1 1 Design of Composite and Steel Structures This handbook provides technical information on the background to the Eurocode and explains the relationships with other Eurocodes particularly the close interactions with Eurocode 2 and Eurocode 3 **Composite Structures of Steel and Concrete** Roger P. Johnson, 2018-08-21 This book provides an introduction to the theory and design of composite structures of steel and concrete Material applicable to both buildings and bridges is included with more detailed information relating to structures for buildings Throughout the design methods are illustrated by calculations in accordance with the Eurocode for composite structures EN 1994 Part 1 1 General rules and rules for buildings and Part 1 2 Structural fire design and their cross references to ENs 1990 to 1993 The methods are stated and explained so that no reference to Eurocodes is needed The use of Eurocodes has been required in the UK since 2010 for building and bridge structures that are publicly funded Their first major revision began in 2015 with the new versions due in the early 2020s Both authors are involved in the work on Eurocode 4 They explain the expected additions and changes and their effect in the worked examples for a multi storey framed structure for a building including resistance to fire The book will be of interest to undergraduate and postgraduate students their lecturers and supervisors and to practising engineers seeking familiarity with composite structures the

Eurocodes and their ongoing revision *Fatigue Design of Steel and Composite Structures* ECCS - European Convention for Constructional Steelwork, 2018-06-05 This volume addresses the specific subject of fatigue a subject not familiar to many engineers but still relevant for proper and good design of numerous steel structures It explains all issues related to the subject Basis of fatigue design reliability and various verification formats determination of stresses and stress ranges fatigue strength application range and limitations It contains detailed examples of applications of the concepts computation methods and verifications Composite Steel Structures S.L. Lee, N.E. Shanmugan, 1991-08-29 Proceedings of the International Conference on Steel and Aluminium Structures ICSAS 91 Singapore 22-24 May 1991 The complete proceedings are available in three volumes steel structures aluminium structures and composite steel structures The conference was organised by the Department of Civil Engineering National University of Singapore sequel to the one held in Cardiff UK in July 1987 It was co-sponsored by the International Association for Bridge and Structural Engineering the Institution of Civil Engineers the Institution of Engineers Singapore the Institution of Structural Engineers the Steel Construction Institute UK the Singapore Structural Steel Society and the University of Wales College of Cardiff The conference provided a forum to discuss recent advances and trends in the analysis design and construction of all types of metal structures This volume contains 18 of the papers presented at the conference Invited Lectures on the state of the art surveys have been provided by well known experts in their respective fields The coverage is extensive and topics include Bridges Building Floor Systems Concrete Filled Hollow Sections Aluminium concrete Systems Composite Members to Earthquake Loading etc **Design of Steel-Concrete Composite Structures Using High-Strength Materials** J.Y. Richard Liew, Ming-Xiang Xiong, Bing-Lin Lai, 2021-08-04 High strength materials offer alternatives to frequently used materials for high rise construction A material of higher strength means a smaller member size is required to resist the design load However high strength concrete is brittle and high strength thin steel plates are prone to local buckling A solution to overcome such problems is to adopt a steel concrete composite design in which concrete provides lateral restraint to steel plates against local buckling and steel plates provide confinement to high strength concrete Design of Steel Concrete Composite Structures Using High Strength Materials provides guidance on the design of composite steel concrete structures using combined high strength concretes and steels The book includes a database of over 2 500 test results on composite columns to evaluate design methods and presents calculations to determine critical parameters affecting the strength and ductility of high strength composite columns Finally the book proposes design methods for axial moment interaction curves in composite columns This allows a unified approach to the design of columns with normal and high strength steel concrete materials This book offers civil engineers structural engineers and researchers studying the mechanical performance of composite structures in the use of high strength materials to design and construct advanced tall buildings Presents the design and construction of composite structures using high strength concrete and high strength steel complementing and extending Eurocode 4 standards

Addresses a gap in design codes in the USA China Europe and Japan to cover composite structures using high strength concrete and steel in a comprehensive way Gives insight into the design of concrete filled steel tubes and concrete encased steel members Suggests a unified approach to designing columns with normal and high strength steel and concrete

Design of Joints in Steel and Composite Structures ECCS - European Convention for Constructional

Steelwork,2016-06-22 This book details the basic concepts and the design rules included in Eurocode 3 Design of steel structures Part 1 8 Design of joints Joints in composite construction are also addressed through references to Eurocode 4 Design of composite steel and concrete structures Part 1 1 General rules and rules for buildings Attention has to be duly paid to the joints when designing a steel or composite structure in terms of the global safety of the construction and also in terms of the overall cost including fabrication transportation and erection Therefore in this book the design of the joints themselves is widely detailed and aspects of selection of joint configuration and integration of the joints into the analysis and the design process of the whole construction are also fully covered Connections using mechanical fasteners welded connections simple joints moment resisting joints and lattice girder joints are considered Various joint configurations are treated including beam to column beam to beam column bases and beam and column splice configurations under different loading situations axial forces shear forces bending moments and their combinations The book also briefly summarises the available knowledge relating to the application of the Eurocode rules to joints under fire fatigue earthquake etc and also to joints in a structure subjected to exceptional loadings where the risk of progressive collapse has to be mitigated Finally there are some worked examples plus references to already published examples and to design tools which will provide practical help to practitioners

Design of Steel Structures to Eurocodes Ioannis Vayas,John Ermopoulos,George Ioannidis,2018-11-23 This textbook describes the rules for the design of steel and composite building structures according to Eurocodes covering the structure as a whole as well as the design of individual structural components and connections It addresses the following topics the basis of design in the Eurocodes framework the loads applied to building structures the load combinations for the various limit states of design and the main steel properties and steel fabrication methods the models and methods of structural analysis in combination with the structural imperfections and the cross section classification according to compactness the cross section resistances when subjected to axial and shear forces bending or torsional moments and to combinations of the above component design and more specifically the design of components sensitive to instability phenomena such as flexural torsional and lateral torsional buckling a section is devoted to composite beams the design of connections and joints executed by bolting or welding including beam to column connections in frame structures and alternative configurations to be considered during the conceptual design phase for various types of single or multi storey buildings and the design of crane supporting beams In addition the fabrication and erection procedures as well as the related quality requirements and the quality control methods are extensively discussed including the procedures for bolting welding and surface protection The

book is supplemented by more than fifty numerical examples that explain in detail the appropriate procedures to deal with each particular problem in the design of steel structures in accordance with Eurocodes The book is an ideal learning resource for students of structural engineering as well as a valuable reference for practicing engineers who perform designs on basis of Eurocodes

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Table of Contents Composite Structures According To Eurocode 4 Worked Examples

1. Understanding the eBook Composite Structures According To Eurocode 4 Worked Examples
 - The Rise of Digital Reading Composite Structures According To Eurocode 4 Worked Examples
 - Advantages of eBooks Over Traditional Books
2. Identifying Composite Structures According To Eurocode 4 Worked Examples
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Composite Structures According To Eurocode 4 Worked Examples
 - User-Friendly Interface
4. Exploring eBook Recommendations from Composite Structures According To Eurocode 4 Worked Examples
 - Personalized Recommendations
 - Composite Structures According To Eurocode 4 Worked Examples User Reviews and Ratings

- Composite Structures According To Eurocode 4 Worked Examples and Bestseller Lists
- 5. Accessing Composite Structures According To Eurocode 4 Worked Examples Free and Paid eBooks
 - Composite Structures According To Eurocode 4 Worked Examples Public Domain eBooks
 - Composite Structures According To Eurocode 4 Worked Examples eBook Subscription Services
 - Composite Structures According To Eurocode 4 Worked Examples Budget-Friendly Options
- 6. Navigating Composite Structures According To Eurocode 4 Worked Examples eBook Formats
 - ePub, PDF, MOBI, and More
 - Composite Structures According To Eurocode 4 Worked Examples Compatibility with Devices
 - Composite Structures According To Eurocode 4 Worked Examples Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Composite Structures According To Eurocode 4 Worked Examples
 - Highlighting and Note-Taking Composite Structures According To Eurocode 4 Worked Examples
 - Interactive Elements Composite Structures According To Eurocode 4 Worked Examples
- 8. Staying Engaged with Composite Structures According To Eurocode 4 Worked Examples
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Composite Structures According To Eurocode 4 Worked Examples
- 9. Balancing eBooks and Physical Books Composite Structures According To Eurocode 4 Worked Examples
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Composite Structures According To Eurocode 4 Worked Examples
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Composite Structures According To Eurocode 4 Worked Examples
 - Setting Reading Goals Composite Structures According To Eurocode 4 Worked Examples
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Composite Structures According To Eurocode 4 Worked Examples
 - Fact-Checking eBook Content of Composite Structures According To Eurocode 4 Worked Examples
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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