

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

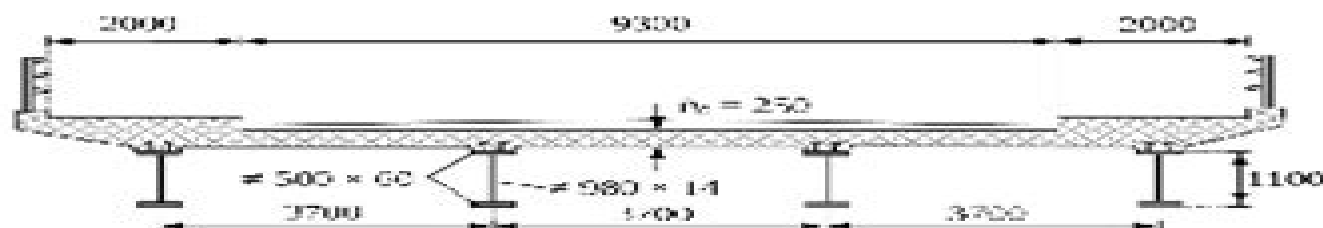


Figure A2.1 Cross-section of composite bridge

Composite Structures According To Eurocode 4 Worked Examples

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



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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

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

STESSA 2003 - Behaviour of Steel Structures in Seismic Areas Federico Mazzolani,2018-03-29 Presenting a comprehensive overview of recent developments in the field of seismic resistant steel structures this volume reports upon the latest progress in theoretical and experimental research into the area and groups findings in the following key sections performance based design of structures structural integrity under exceptional loading material and member behaviour connections global behaviour moment resisting frames passive and active control strengthening and repairing codification design and application

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