



# In Prestressed Concrete Bridge Construction

**Nigel R. Hewson**



## **In Prestressed Concrete Bridge Construction:**

Prestressed Concrete Bridges Nigel R. Hewson, 2003 Prestressed concrete decks are commonly used for bridges with spans between 25m and 450m and provide economic durable and aesthetic solutions in most situations where bridges are needed Concrete remains the most common material for bridge construction around the world and prestressed concrete is frequently the material of choice Extensively illustrated throughout this invaluable book brings together all aspects of designing prestressed concrete bridge decks into one comprehensive volume The book clearly explains the principles behind both the design and construction of prestressed concrete bridges illustrating the interaction between the two It covers all the different types of deck arrangement and the construction techniques used ranging from in situ slabs and precast beams segmental construction and launched bridges and cable stayed structures Included throughout the book are many examples of the different types of prestressed concrete decks used with the design aspects of each discussed along with the general analysis and design process Detailed descriptions of the prestressing components and systems used are also included Prestressed Concrete Bridges is an essential reference book for both the experienced engineer and graduate who want to learn more about the subject

Prestressed Concrete Bridges Christian Menn, 1990-11-01 This book was written to make the material presented in my book Stahlbetonbrücken accessible to a larger number of engineers throughout the world A work in English the logical choice for this task had been contemplated as Stahlbetonbrücken was still in its earliest stages of preparation The early success of Stahlbetonbrücken provided significant impetus for the writing of Prestressed Concrete Bridges which began soon after the publication of its predecessor The present work is more than a mere translation of Stahlbetonbrücken Errors in Stahlbetonbrücken that were detected after publication have been corrected New material on the relation between cracking in concrete and corrosion of reinforcement prestressing with unbonded tendons skew girder bridges and cable stayed bridges has been added Most importantly however the presentation of the material has been extensively reworked to improve clarity and consistency Prestressed Concrete Bridges can thus be regarded as a thoroughly new and improved edition of its predecessor

The Design of Prestressed Concrete Bridges Robert Benaim, 2007-12-06 Examining the fundamental differences between design and analysis Robert Benaim explores the close relationship between aesthetic and technical creativity and the importance of the intuitive more imaginative qualities of design that every designer should employ when designing a structure Aiding designers of concrete bridges in developing an intuition

**Construction and Design of Prestressed Concrete Segmental Bridges** Walter Podolny, Jean M. Muir, 1982-05-11 An extensively illustrated handbook summarizing the current state of the art of design and construction methods for all types of segmental bridges Covers construction methodology design techniques economics and erection of girder type bridges arch rigid frame and truss bridges cable stayed bridges and railroad bridges

**The Free Cantilevering Method in Prestressed Concrete Bridge Construction** VSL International, 1978

*Modern Prestressed Concrete Highway Bridge Superstructures* James R.

Libby, Norman D. Perkins, 1976      **Launched Bridges** Marco Rosignoli, 1998 Since the first prestressed concrete bridge was built and launched by Freyssinet in 1941 such structures have soared to greater heights due to computer aided design and innovative materials Rosignoli a consulting engineer practicing in Italy and abroad distills aesthetic environmental consciousness      **Design of Concrete Bridge Beams Prestressed with CFRP Systems** Abdeldjelil Belarbi, Mina Dawood, Prakash Poudel, Mahmoud Reda, Hamidreza Tahsiri, Bora Gencturk, S. H. Rizkalla, Henry G. Russell, 2019 This report proposes guidelines and presents research findings that are expected to advance and facilitate the use of CFRP systems in bridge applications In addition five design examples that illustrate the step by step use of the proposed guide specifications are provided Carbon fiber reinforced polymer CFRP is becoming a recognized alternative to traditional construction materials in a wide range of civil engineering applications An example of such applications is the use of CFRP cables or bars as prestressing tendons for concrete bridge girders especially in aggressive environments where steel prestressing strands are susceptible to corrosion Despite their promise CFRP prestressing tendons have not frequently been used for bridge construction in the United States their use has been hampered by the lack of recognized design specifications      **Behavior and Design of Trapezoidally Corrugated Web Girders for Bridge Construction** Mostafa Fahmi Hassanein, YongBo Shao, Man Zhou, 2022-05-07 Corrugated web girders CWGs used for bridge construction differ in important ways from conventional prismatic girders Behavior and Design of Trapezoidally Corrugated Web Girders for Bridge Construction details the behavior and design of CWGs in bridge construction and includes unique research into high strength steel The title gives a comprehensive review of the last decade in CWG design In depth explanations of key concepts are given such as the accordion effect that differentiate these girders from more conventional flat webbed girders and the authors also present specialized research into tubular flanged girders The book distinguishes between prismatic and tapered CWGs explains failure modes under both shear and flexure and gives clear figures to illustrate these modes The volume compares international building codes and offers recommendations for future research Seven chapters cover An introduction to CWGs for bridge construction Development of bridges with corrugated webs Real boundary conditions between flange and web Shear buckling behavior Flexural buckling behavior Recent erection methods and Future research Enables the reader to understand advances and future directions in the behavior and design of CWGs for bridge building Reviews advances in the behavior and design of CWGs Explains concepts which make these girders different from conventional flat webbed girders Distinguishes between the behavior of prismatic and tapered CWGs Considers the failure modes of girders under shear and flexure as well as ultimate strength Compares international codes such as Eurocode 3 in useful technical detail      The Incremental Launching Method in Prestressed Concrete Bridge Construction VSL International, 1977      Developments in Prestressed Concrete F. Sawko, 1978      **Application of Accelerated Bridge Construction Connections in Moderate-to-High Seismic Regions**, 2011 TRB's National Cooperative Highway Research Program NCHRP Report 698

Application of Accelerated Bridge Construction Connections in Moderate to High Seismic Regions evaluates the performance of connection details for bridge members in accelerated bridge construction in medium to high seismic regions and offers suggestions for further research *Current and Future Trends in Bridge Design, Construction and Maintenance 2: Safety, Economy, Sustainability and Aesthetics* Institute of Civil Engineers, Highways Agency and International Association for Bridge Maintenance and Safety, 2001-12-14 The Institution of Civil Engineers has organised a series of conferences to celebrate at the start of the New Millennium the enormous achievements made in the field of bridge engineering in recent years This volume of papers from the second of these conferences held in Hong Kong encompasses the state of the art in bridge design construction maintenance and safety assessment It includes papers on major bridge schemes both completed and under construction and on innovative approaches used in various parts of the world It also looks at local and regional projects and bridge related issues The wealth of information contained in this publication will be of interest to bridge consultants and contractors practising engineers researchers and bridge owners both local and international

**High-performance/high-strength Lightweight Concrete for Bridge Girders and Decks** Thomas E. Cousins, Carin Louise Roberts-Wollmann, Michael Carey Brown, 2013 TRB's National Cooperative Highway Research Program NCHRP Report 733 High Performance High Strength Lightweight Concrete for Bridge Girders and Decks presents proposed changes to the American Association of State Highway and Transportation Officials Load and Resistance Factor Design LRFD bridge design and construction specifications to address the use of lightweight concrete in bridge girders and decks The proposed specifications are designed to help highway agencies evaluate between comparable designs of lightweight and normal weight concrete bridge elements so that an agency's ultimate selection will yield the greatest economic benefit The attachments contained in the research agency's final report provide elaborations and detail on several aspects of the research Attachments A and B provide proposed changes to AASHTO LRFD bridge design and bridge construction specifications respectively these are included in the print and PDF version of the report Attachments C through R are available for download below Attachments C D and E contain a detailed literature review survey results and a literature summary and the approved work plan respectively Attachment C Attachment D Attachment E Attachments F through M provide details of the experimental program that were not able to be included in the body of this report Attachment F Attachment G Attachment H Attachment I Attachment J Attachment K Attachment L Attachment M Attachments N through Q present design examples of bridges containing lightweight concrete and details of the parametric study Attachment N Attachment O Attachment P Attachment Q Attachment R is a detailed reference list Publication information [Guidelines for Accelerated Bridge Construction Using Precast/prestressed Concrete Components](#) Precast/Prestressed Concrete Institute, 2006 *Composite Precast Prestressed Concrete Bridge Slabs* R.E. Abendroth, 1991 Precast prestressed concrete panels have been used as subdecks in bridge construction in Iowa and other states To investigate the performance of these types of composite slabs at

locations adjacent to abutment and pier diaphragms in skewed bridges a research project which involved surveys of design agencies and precast producers field inspections of existing bridges analytical studies and experimental testing was conducted The survey results from the design agencies and panel producers showed that standardization of precast panel construction would be desirable that additional inspections at the precast plant and at the bridge site would be beneficial and that some form of economical study should be undertaken to determine actual cost savings associated with composite slab construction Three bridges in Hardin County Iowa were inspected to observe general geometric relationships construction details and to note the visual condition of the bridges Hairline cracks beneath several of the prestressing strands in many of the precast panels were observed and a slight discoloration of the concrete was seen beneath most of the strands Also some rust staining was visible at isolated locations on several panels Based on the findings of these inspections future inspections are recommended to monitor the condition of these and other bridges constructed with precast panel subdecks Five full scale composite slab specimens were constructed in the Structural Engineering Laboratory at Iowa State University One specimen modeled bridge deck conditions which are not adjacent to abutment or pier diaphragms and the other four specimens represented the geometric conditions which occur for skewed diaphragms of 0 15 30 and 40 degrees The specimens were subjected to wheel loads of service and factored level magnitudes at many locations on the slab surface and to concentrated loads which produced failure of the composite slab The measured slab deflections and bending strains at both service and factored load levels compared reasonably well with the results predicted by simplified Finite element analyses of the specimens To analytically evaluate the nominal strength for a composite slab specimen yield line and punching shear theories were applied Yield line limit loads were computed using the crack patterns generated during an ultimate strength test In most cases these analyses indicated that the failure mode was not flexural Since the punching shear limit loads in most instances were close to the failure loads and since the failure surfaces immediately adjacent to the wheel load footprint appeared to be a truncated prism shape the probable failure mode for all of the specimens was punching shear The development lengths for the prestressing strands in the rectangular and trapezoidal shaped panels was qualitatively investigated by monitoring strand slippage at the ends of selected prestressing strands The initial strand transfer length was established experimentally by monitoring concrete strains during strand detensioning and this length was verified analytically by a finite element analysis Even though the computed strand embedment lengths in the panels were not sufficient to fully develop the ultimate strand stress sufficient slab strength existed Composite behavior for the slab specimens was evaluated by monitoring slippage between a panel and the topping slab and by computation of the difference in the flexural strains between the top of the precast panel and the underside of the topping slab at various locations Prior to the failure of a composite slab specimen a localized loss of composite behavior was detected The static load strength performance of the composite slab specimens significantly exceeded the design load requirements Even with skew angles of

up to 40 degrees the nominal strength of the slabs did not appear to be affected when the ultimate strength test load was positioned on the portion of each slab containing the trapezoidal shaped panel At service and factored level loads the joint between precast panels did not appear to influence the load distribution along the length of the specimens Based on the static load strength of the composite slab specimens the continued use of precast panels as subdecks in bridge deck construction is recommended **Handbook of International Bridge Engineering** Wai-Fah Chen,Lian Duan,2013-10-11

This comprehensive and up to date reference work and resource book covers state of the art and state of the practice for bridge engineering worldwide Countries covered include Canada and the United States in North America Argentina and Brazil in South America Bosnia Bulgaria Croatia Czech Republic Denmark Finland France Greece Macedonia Poland Russia Serbia Slovakia and Ukraine in the European continent China Indonesia Japan Chinese Taipei and Thailand in Asia and Egypt Iran and Turkey in the Middle East The book examines the use of different materials for each region including stone timber concrete steel and composite It examines various bridge types including slab girder segmental truss arch suspension and cable stayed A color insert illustrates select landmark bridges It also presents ten benchmark comparisons for highway composite girder design from different countries the highest bridges the top 100 longest bridges and the top 20 longest bridge spans for various bridge types including suspension cable stayed extradosed arch girder movable bridges vertical lift swing and bascule floating stress ribbon and timber and bridge construction methods Construction of prestressed concrete single-tee bridge superstructures ,1977 This report discusses in detail the construction of the first five precast prestressed concrete single tee beam bridge superstructures to be let to contract in Virginia The data suggest that this single tee beam enables efficient construction of the superstructures of bridges in the short span range because the contractor can move from the bridge seat stage of construction to the forms in place stage by erecting tee beams mass produced at a fabricating plant Using a 45 ton 4 x 104 kg crane several men can erect connect and overlay the tee beams at the rate of about one 42 ft x 44 ft 12 6 m x 13 2 m span per week With the addition of precast parapets superstructure form work at the bridge site is almost eliminated On site construction time for the single tee superstructure is controlled primarily by the time required for the site cast concrete used in the diaphragms overlays and backwalls to attain the design strength Single tee bridge construction should be continued in a manner consistent with the conclusions of this report Some additional research is recommended **Planning and Design of Bridges** M. S. Troitsky,1994-10-28 Timely authoritative extremely practical an exhaustive guide to the nontheoretical aspects of bridge planning and design This book addresses virtually all practical problems associated with the planning and design of steel and concrete bridge superstructures and substructures Drawing on its author's nearly half century as a bridge designer and engineer it offers in depth coverage of such crucial considerations as selecting the optimum location and layout traffic flow aesthetics design analysis construction current codes and government regulations maintenance and rehabilitation and much more Offers in depth coverage of all the steps involved in

performing proper planning and design with comparative analyses of alternative solutions. Includes numerous examples and case studies of existing bridges and important projects underway around the world. Features a time line history of bridge building from pre Roman times to the present. Summarizes key technical data essential to bridge engineering. Supplemented with 200 line drawings and photos vividly illustrating all concepts presented. Comprehensive coverage of CAD planning design and analysis techniques and technologies.

*Accelerated Bridge Construction* Mohiuddin Ali Khan, 2014-08-12

The traveling public has no patience for prolonged high cost construction projects. This puts highway construction contractors under intense pressure to minimize traffic disruptions and construction cost. Actively promoted by the Federal Highway Administration, there are hundreds of accelerated bridge construction (ABC) construction programs in the United States, Europe, and Japan. *Accelerated Bridge Construction: Best Practices and Techniques* provides a wide range of construction techniques, processes, and technologies designed to maximize bridge construction or reconstruction operations while minimizing project delays and community disruption. Describes design methods for accelerated bridge substructure construction, reducing foundation construction time and methods by using pile bents. Explains applications to steel bridges, temporary bridges in place of detours using quick erection and demolition. Covers design-build systems, boon to ABC development of software, use of fiber-reinforced polymer (FRP). Includes applications to glulam and sawn lumber bridges, precast concrete bridges, precast joints, details, use of lightweight aggregate concrete, aluminum, and high performance steel.

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