



In Prestressed Concrete Bridge Construction

Robert Benaim



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

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 intu

Construction and Design of Prestressed Concrete Segmental Bridges Walter Podolny, Jean M. Muiler, 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

Guidelines for Accelerated Bridge Construction Using Precast/prestressed Concrete Components Precast/Prestressed Concrete Institute, 2006

Prestressed Concrete Bridges Christian Menn, 1990-11-01 This book was written to make the material presented in my book Stahlbetonbrucken accessible to a larger number of engineers throughout the world A work in English the logical choice for this task had been contemplated as Stahlbetonbrucken was still in its earliest stages of preparation The early success of Stahlbetonbrucken 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 Stahlbetonbrucken Errors in Stahlbetonbrucken 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

Modern

Prestressed Concrete Highway Bridge Superstructures James R. Libby, Norman D. Perkins, 1976 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

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 *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

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

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

Prestressed Concrete Segmental Bridges ,1979 **Incorporating Shrinkage Effects in FE Modeling of Prestressed Concrete Bridge** Dhara Purani,2013 Right from the inception of the implementation of prestressed concrete in the bridge construction field it has been very popular Even though this type of bridges has big advantages cracking is a major problem The cracking event due to its detrimental effects on the structure is the most objectionable problem In cracking shrinkage plays a very significant role This implies that the study of shrinkage is essential to study the phenomenon of cracking Due to many variables responsible for deck cracking it is very difficult to study the overall effect of these variegated factors taken in the consideration at a time This thesis aims to confluence as many such aspects as possible in a single plane of consideration with the help of Finite Element software namely ABAQUS The goal of this research is to study shrinkage shrinkage effects and factors affecting the shrinkage and ultimately to

incorporate the shrinkage effects in Finite Element Modeling Here the study is constrained to Prestressed Concrete Bridge Thus the research is carried to incorporate the shrinkage effects in FE Modeling of Prestressed Concrete Bridge This is a difficult task as many finite element programs do not have pre programmed methods for simulating the time dependent properties of concrete Therefore it is necessary to develop these methods This study concentrates on trying to simulate the behavior of a simple span bridge as a means of developing the basic analytical method In the research Abaqus has been selected and the selection has been justified for the purpose of analyzing time dependent effects in bridges A parametric study has been carried out with a view to identifying the effects of various parameters of shrinkage in a structure The effects of the parameters such as length of the span girder spacing deck thickness and modulus of elasticity of girder have been analyzed with the help of bridges modeled in Abaqus The parametric study concludes that shrinkage strain increases with increase in length and spacing of girder The shrinkage strain decreases with increase in compressive strength of girder and deck thickness

Innovative Bridge Designs for Rapid Renewal HNTB Corporation, Genesis Structures Inc, Structural Engineering Associates, and Iowa State University, This report from the second Strategic Highway Research Program SHRP 2 which is administered by the Transportation Research Board of the National Academies documents the development of standardized approaches to designing and constructing complete bridge systems for rapid renewals The Free

Cantilevering Method in Prestressed Concrete Bridge Construction VSL International,1978 **Construction and Testing of an Experimental Prestressed Concrete Bridge** Robert Mark Barnoff,James Allen Orndorff,1974 **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 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

Continuous Prestressed Concrete Girder Bridges Mary Beth Deisz Hueste, John B. Mander, Angaha S. Parkar, Reza Baie, Akshay Parchure, Jennifer Michelle Prouty, Tristan Sarremaejane, 2016 The Texas Department of Transportation designs typical highway bridge structures as simple span systems using standard precast pretensioned girders Spans are limited to about 150 ft due to weight and length restrictions on transporting the precast girder units from the prestressing plant to the bridge site Such bridge construction while economical from an initial cost point of view may become somewhat limiting when longer spans are needed This project focused on developing additional economical design alternatives for longer span bridges with main spans ranging from 150 300 ft using continuous precast prestressed concrete bridge structures with in span splices Phase 1 of this study focused on evaluating the current state of the art and practice relevant to continuous precast concrete girder bridges and recommending suitable continuity connections for typical Texas bridge girders the findings are documented in the Volume 1 project report This report summarizes Phase 2 of the research including detailed design examples for shored and partially shored construction results of a parametric design study and results of an experimental program that tested a full scale girder containing three splice connections The parametric design study indicated that for bridges spanning from 150 300 ft continuous precast prestressed concrete girder bridges with in span splices can provide an economical alternative to steel girder bridges and segmental concrete box girder construction The tested splice connections performed well under service level loads However the lack of continuity of the pretensioning through the splice connection region had a significant impact on the behavior at higher loads approaching ultimate conditions Improved connection behavior at ultimate conditions is expected through enhanced connection details Recommendations for design of continuous spliced precast girders along with several detailing suggestions are discussed in the report

The Top Books of the Year In Prestressed Concrete Bridge Construction The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. In Prestressed Concrete Bridge Construction : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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