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Simple, relevant calculation techniques that should precede any detailed analysis are summarized.

Construction methods used to build concrete bridge decks and substructures are detailed and direct guidance on the choice and the sizing of different types of concrete bridge deck is given. In addition guidance is provided on solving recurring difficult problems of detailed design and realistic examples of the design process are provided.

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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.

Prestressed concrete bridges: design and construction

PGSuper is a computer program for the design, analysis, and load rating of

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Precast, prestressed concrete girder bridges. A design example followed by a load rating analysis illustrates the engineering computations performed by PGSuper. PGSuper uses a state-of-the-art iterative design algorithm and other iterative computational procedures.

Precast, Prestress Bridge Girder Design Example

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most common material for bridge construction around the world, and prestressed concrete is frequently the material of choice.

Prestressed Concrete Bridges: Design and Construction ...

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

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The main difference between reinforced concrete and prestressed concrete is the fact that reinforced concrete combines concrete and steel bars by simply putting them together and letting them to...

(PDF) Design and detailing of Pres-Stressed concrete bridge

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And construction economic, durable and aesthetic solutions in most situations where bridges are needed. Concrete...

Prestressed Concrete Bridges: Design and Construction ...

Philadelphia's Walnut Lane Bridge, completed in late 1950, is considered the first major prestressed-concrete bridge in the U.S. Gustave Magnel, a Belgian engineer, and Charles Zollman, Magnel's student, designed the bridge. Each of the post-tensioned concrete beams was cast at the bridge site in a single piece.

Prestressed Concrete Bridges

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CONTENT: The New York State Prestressed Concrete Construction Manual (PCCM) is a mandatory part of the contract documents for Department of Transportation projects when referred to by the item specification for structural precast, and/or prestressed concrete units.
Revision History: 3rd Edition - Revised April 2019
3rd Edition - April 2017
2nd Edition - September 2000

Prestressed Concrete Construction Manual

The preliminary design uses six rows of 45 in. prestressed concrete girders, spaced at 8' - 9" (see Transverse Section).

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This configuration will be analyzed, and a prestressing strand pattern designed using the CONSPAN computer program. For program input, dead loads must be calculated and design data assembled.

EXAMPLE NO.1: PRESTRESSED CONCRETE GIRDER BRIDGE DESIGN

G.L. Balázs, ... T. Kovács, in Innovative Bridge Design Handbook, 2016. 1 Types of reinforced concrete bridges. The type of reinforced or prestressed concrete bridge deck depends mainly on the functional requirements, the structural form, and the main span length of the

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And Construction. Precast or cast in situ reinforced concrete (r.c.) bridge decks can be practically applied for all structural types, like arch, cable-stayed, extradosed, and even suspension bridges with a majority of girder ...

Prestressed Concrete Bridge - an overview | ScienceDirect ...

Precast is utilized to construct both the superstructure and substructures of all types of bridges. Superstructures include: flat slabs, adjacent box beams, pretensioned beams, spliced and curved girders. Whereas

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substructures include:
precast end bents, piles and pile bent caps, water line pile caps, and precast columns.

Bridge Design - PCI

Prestressed Concrete - I Beams-Transverse Section and Diaphragms: EB 17-010:

02/17/17: BD-PC17E:

Prestressed Concrete - NEBT/PCEF/AASHTO I-Beam - Framing Plans: EB 17-010:

02/17/17: BD-PC18E:

Prestressed Concrete - NEBT/PCEF/AASHTO I-Beam - End Diaphragm Details: EB 17-010: 02/17/17: BD-PC19E:

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PC - Prestressed Concrete Beams and Slab Units USC

Concrete is the most popular structural material for bridges, and prestressed concrete is frequently adopted. [34] [35] When investigated in the 1940s for use on heavy-duty bridges, the advantages of this type of bridge over more traditional designs was that it is quicker to install, more economical and longer-lasting with the bridge being less ...

Prestressed concrete - Wikipedia

PCI-affiliated organizations with localized continuing education, design

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Assistance, and university support. Explore Regional Resources. PCI Design Handbook. The authority for the design, manufacture, and use of precast, prestressed concrete. Purchase the 8th Edition. Precast Careers. Your go-to job resource as you pursue a career in this ...

PCI

Focus is placed on both the preliminary and final design of prestressed bridge superstructures, including the loading, the analysis, the detailing and the construction of prestressed superstructures. Design is in accordance with the

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current Eurocode 2 standards, but is also complemented with state-of-the-art knowledge.

PRESTRESSED CONCRETE BRIDGE DESIGN - 2020/1 - University

...

The theoretical basis and the main results of a design procedure, which attempts to provide the optimal layout of ordinary reinforcement in prestressed concrete beams, subjected to bending moment

...

(PDF) Design procedure for prestressed concrete beams
Prestressed concrete is to be considered as a combination of steel and

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concrete with the steel taking tension and concrete compression so that the two materials form a resisting couple against the external moment. (Analogous to reinforced concrete concepts). This concept is utilized to determine the ultimate strength of prestressed beams.

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