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failure in slow-motion!**

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Simple, relevant

calculation techniques

that should precede any

detailed analysis are

summarized.

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Concrete 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

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Concrete examples of the design process are provided.

The Design of

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Bridges: Concepts and

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Prestressed concrete decks are commonly used for bridges with spans between 25m and 450m and provide economic, durable and

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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

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

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algorithm and other iterative computational procedures.

Precast, Prestress Bridge Girder Design Example

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Examining the
fundamental differences

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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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bridges in developing an
intu

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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

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Concrete
and letting them to...

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Stressed concrete bridge

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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,

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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

CONTENT: The New
York State Prestressed
Concrete Construction
Manual (PCCM) is a

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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

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Prestressed Concrete Construction Manual

The preliminary design uses six rows of 45 in. prestressed concrete girders, spaced at 8'- 9" (see Transverse Section). This configuration will be analyzed, and a prestressing strand pattern designed using the CONSPAN computer program. For

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program input, dead loads must be calculated and design data assembled.

Construction

EXAMPLE NO.1:

PRESTRESSED

CONCRETE GIRDER

BRIDGE DESIGN

G.L. Balázs, ... T.

Kovács, in Innovative

Bridge Design

Handbook, 2016. 1

Types of reinforced

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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 construction. Precast or cast in situ reinforced concrete (r.c.) bridge decks can be practically applied for all structural types, like arch, cable-

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stayed, extradosed, and even suspension bridges with a majority of girder

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Bridge - an overview |

ScienceDirect ...

Precast is utilized to construct both the superstructure and substructures of all types of bridges.

Superstructures include:

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flat slabs, adjacent box beams, pretensioned beams, spliced and curved girders. Whereas 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

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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

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I-Beam - End

Diaphragm Details: EB

17-010: 02/17/17: BD-

PC19E: Prestressed

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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

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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 ...

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Wikipedia

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education, design

assistance, and
university support.

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authority for the design,

manufacture, and use of

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concrete. Purchase the

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resource as you pursue a

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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 current Eurocode 2

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standards, but is also

complemented with
state-of-the-art

knowledge.

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The theoretical basis
and the main results of a
design procedure, which
attempts to provide the
optimal layout of

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Concrete reinforcement
in prestressed concrete
beams, subjected to
bending moment ...

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(PDF) Design procedure
for prestressed concrete
beams

Prestressed concrete is
to be considered as a
combination of steel and
concrete with the steel
taking tension and
concrete compression so

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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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