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particular effort is  
made throughout to  
synthesize and  
condense the essential  
information and to give  
an overview of the

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Fundamentals ...**

Section 2 - This section

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of the course deals with the basic principles of prestressed concrete.

The pre-tensioned prestressed method is described. Section 3 -

In this section of the course students will learn how to perform analysis checks at the Serviceability Limit State. Two examples are covered.

**Structural  
Engineering:**

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Prestressed Concrete Design. This book is suited for a first course in pre-stressed concrete design offered to senior undergraduate students in civil engineering and postgraduate students in structural engineering. The book focuses on the behaviour of the pre-

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stressed concrete  
structural elements.

Carefully-chosen  
worked examples are  
included to delineate  
the design aspects  
while relevant chapter-  
end questions enable  
effortless  
recapitulation of the  
subject.

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Civil Engineering  
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As a result, prestressed

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concrete analysis and design are more complicated and mechanics-based than for reinforced concrete, which relies more on empirical formulas. In practice, prestressed concrete also requires a higher level of technology in its construction.

**Introduction to prestressed concrete (Chapter 12 ...**

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**Precast/Prestressed**

**Concrete Design ...**

Lecture 24 -

Prestressed Concrete

Prestressed concrete

refers to concrete that

has applied stresses

induced into the

member. Typically,

wires or “tendons” are

stretched and then

blocked at the ends

creating compressive

stresses throughout

the member’s entire

cross-section. Most

Prestressed concrete is

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precast in a plant.

**Lecture 24 -  
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The CivilWeb  
Prestressed Concrete  
Beam Design Excel  
Spreadsheet draws a  
handy diagram  
showing the designer  
the tendons chosen  
profile. The  
spreadsheet then  
calculates the tensile  
and compressive  
stresses acting on the

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beam and the tendons.

These stresses are

calculated both at the

top and at the bottom

of the section.

**Prestressed**

**Concrete Beam**

**Design Excel**

**Spreadsheet -**

**CivilWeb**

computer program for

the design, analysis,

and load rating of

precast, prestressed

concrete girder

bridges. A design



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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. Only the final

**Precast, Prestress  
Bridge Girder Design  
Example**

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Abstract. The third  
edition of Reinforced  
and Prestressed  
Concrete continues to  
be the most  
comprehensive text for

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And Design

Practising engineers.

Theoretical and

practical aspects of

analysis and design are

presented in a clear,

easy-to-follow manner

and are complemented

by numerous

illustrative and design

examples to aid

students'

comprehension of

complex concepts.

**Reinforced and**

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## **Prestressed Concrete - 3rd edition**

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the most  
comprehensive, up-to-  
the-minute text for  
students and  
instructors in civil and  
structural engineering,  
and for practising  
engineers requiring a  
full...

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Prestressed concrete is one of the most reliable, durable, and widely used construction materials in building and bridge projects around the world. It has made significant contributions to the construction industry, the precast manufacturing industry, and the cement industry as a

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