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nuclear engineering and design 8 (1968) 471-486. north-holland publishing comp., amsterda.

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The idea of prestressed concrete has been around since the latter decades of the 19th century, but its use was limited by the quality of the materials at the time. It took until the 1920s and '30s for its materials development to progress to a level where prestressed concrete could be used with

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confidence.

## **Prestressed Concrete - PE Civil Exam**

designing partially prestressed concrete structures, several different design examples are given (1) box girder bridge, (2) double tees, (3) roof beams, (4) submerged tunnel, (5) connection of tank wall to floor slab; (6) flat slabs. Note that some of the members in these examples are precast pretensioned. Design Philosophy In general, it is not necessary to

## **Partially Prestressed Concrete Structures A Design Challenge**

Prestressed Concrete covers the fundamentals of prestressing, systems of prestressing, losses, the ultimate strength of sections in flexure, shear and torsion, anchorage zone stresses, limit state concepts and holistic design of prestressed concrete elements.

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The advantages of prestressed concrete include: The inherent compressive strength of concrete is used to its fullest. The special alloy steels used to form the prestressing tendons are used to their fullest. Tension cracks are eliminated, reducing the risk of the steel components corroding.

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CCL is an expert in post-tensioned and pre-tensioned concrete technology and is the number one supplier of prestressed concrete solutions in buildings. The Company helps its partners design and build more imaginative, efficient and durable structures.

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