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projects when referred to by  
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the allowable stresses in prestressed concrete. Most of the work of PSC design involves ensuring that the stresses in the concrete are within the permissible limits. Since we deal with allowable stresses, only

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Concrete (ACI 318-63) (1) \*  
requires that creep and  
shrink-age deflections be

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considered in the analysis and design of prestressed concrete structures. This Code, however, does not prescribe a method of calculation. A need exists, therefore, for a simple and accurate method for

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designing partially  
prestressed concrete  
structures, several  
different design examples  
are given (1) box girder  
bridge, (2) double tees, (3)

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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

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not necessary to

~~Partially Prestressed  
Concrete Structures A Design  
Challenge~~

Prestressed concrete is a form of concrete used in construction. It is

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substantially "prestressed"  
during production, in a  
manner that strengthens it  
against tensile forces which  
will exist when in  
service.-5 This compression  
is produced by the  
tensioning of high-strength

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"tendons" located within or adjacent to the concrete and is done to improve the performance of the concrete in service. Tendons may consist of single wires, multi-wire strands or threaded bars that are most

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~~Prestressed concrete~~

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Reinforced Concrete

Pre-Tensioned Post-Tensioned

Bonded Strands Bonded

Tendons Unbonded Tendons

Internal Internal External

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~~DESIGN OF POST TENSIONING  
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Hollow core slabs, or plank,  
are precast prestressed  
concrete components  
typically used as structural  
floor or roof deck systems  
in single and multi-story

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buildings. To reduce weight  
and provide a more efficient  
product, the planks are cast  
with continuous voids that  
run the length of the panel.

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field includes: materials,  
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of prestress, shear and  
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and Construction of  
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also proven to be ideal for  
storage of other liquids at  
cryogenic temperatures such

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prestressed tanks feature a  
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