

# Analysis & Design of Prestressed Concrete Structures

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Plain concrete, commonly known as concrete, is an ultimate mixture of binding material, fine aggregate, coarse aggregate and water. This can be easily moulded to desired shape and size before it loses plasticity and hardness. Plain concrete is strong in compression but very weak in tension. Strength of concrete in tension is very low and hence it is ignored in reinforced concrete (R.C.C.) design. Concrete in tension requires reinforcement in steel and helping to keep steel at desired distance. This is R.C.C. lot of concrete is not properly utilized. Prestressing of concrete is one of the method of utilizing concrete properly.

The principle of prestressed concrete is to introduce internal compressive stresses in the concrete structure before it is exposed to the concrete external loads. When such stresses about to load stresses developed due to loading but it first satisfy these compressive stresses before introducing tensile stress in concrete.

Thus in prestressed concrete stress concrete is utilized to meet the load. Another important advantage of pre-stressed concrete (PSC) is that cracks are avoided in the structure and hence durability is high. The flexural strength of PSC is also high. The deflection of PSC beam is not so high and this is can be used for longer spans also. PSC is commonly used in the construction of bridges, large columns, fire tanks and shafts. PSC slabs and decks piers are commonly used.

The material used in PSC is high strength steel and high strength concrete. The tensioning of wires may be by pre-tensioning or post-tensioning. Pre-tensioning consists of stretching the wires before concreting and then allowing the wires to relax in post-tensioning, the ducts are cast in concrete structure. The concrete of hardness, pre-tensioning wires are passed through ducts. After stretching wires, they are anchored to concrete structure by special anchors.

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# Design Of Prestressed Concrete Structures

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