



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 50010-2010

Replacing GB 50010-2002

Code for design of concrete structures

混凝土结构设计规范

(English Translation)

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Explanation of Wording in This Code

List of Quoted Standards

1.0.1

This code was formulated with a view to implementing the national technical and economic policies in the design of concrete structures, achieving safety, applicability and economy and guaranteeing quality.

1.0.2

This code is applicable to the design of buildings and other general structures made by reinforced concrete, prestressed concrete and plain concrete. But it is not applicable to the design of structures using light self-weight aggregate concrete and special concrete.

1.0.3

This code was formulated based on the principle of the current national standards "Unified Standard for Reliability Design of Engineering Structures" (GB 50153) and "Unified Standard Reliability Design of Building Structures" (GB 50068). This code gives the basic requirements for the design of concrete structures.

1.0.4

In addition to this code, the design of concrete structures shall also comply with those stipulations specified in the relevant current national standards.

2.1.1 Concrete structure

The structure that is made mainly by concrete, including plain concrete structure, reinforced concrete structure and prestressed concrete structure, etc..

2.1.2 Plain concrete structure

The concrete structure that has no reinforcement or no load-carrying reinforcement.

2.1.3 Steel rebar

A generic term for non-prestressing reinforcement used in concrete structural members.

2.1.4 Prestressing tendon

A generic term for prestressing steel wires, strands and deformed steel rebars used in concrete structural members.

2.1.5 Reinforced concrete structure

The concrete structure that is provided with load-carrying reinforcement.

2.1.6 Prestressed concrete structure

The concrete structure that is provided with load-carrying prestressing tendons. The prestress is introduced through stretching or other methods.

2.1.7 Cast-in-situ concrete structure

The concrete structure that is built by erecting form and integrally casting at its permanent location.

2.1.8 Precast concrete structure

The concrete structure that is formed by assembling and connecting precast concrete members or parts.

2.1.9 Assembled monolithic concrete structure

The concrete structure that is assembled by connecting precast concrete members or parts with steel reinforcement, connectors or prestressing force and is finished by casting concrete at connecting spots to form an integral structure that responds to loads as one unit.

2.1.10 Composite member

The structural member that is produced by combining precast concrete members (or existing concrete structural members) and cast-in-situ concrete but so interconnected that the combined components act together as a single member and respond to loads as one unit.

2.1.11 Deep flexural member

The flexural member having span to height ratio less than 5.