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Code for seismic design of buildings

建筑抗震设计规范

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Table of Contents

1	General
2	Terms and Symbols
2.1	Terms
2.2	Symbols
3	Basic Requirements of Seismic Design
3.1	Category and Criterion for Seismic Precaution of Buildings
3.2	Earthquake Ground Motion
3.3	Site and Soil
3.4	Regularity of Building Configuration and Structural Assembly
3.5	Structural System
3.6	Structural Analysis
3.7	Nonstructural Components
3.8	Isolation and Energy-Dissipation
3.9	Materials and Construction
3.10	Seismic Performance-Based Design of Buildings
3.11	Seismic Response Observation System of Buildings
4	Site, Soil and Foundation
4.1	Site
4.2	Natural Soil and Foundation
4.3	Liquefied Soil and Soft Soil
4.4	Pile Foundation
5	Earthquake Action and Seismic Checking for Structures
5.1	General
5.2	Calculation of Horizontal Earthquake Action
5.3	Calculation of Vertical Earthquake Action
5.4	Seismic Checking for the Sections of Structural Member
5.5	Seismic Checking for the Storey Drift
6	Multi-storey and Tall Reinforced Concrete Buildings
6.1	General
6.2	Essentials in Calculation
6.3	Details of Seismic Design for Frame Structures
6.4	Details of Seismic Design for Seismic Wall Structures

- 6.5 Details of Seismic Design for Frame-seismic-Wall Structures
- 6.6 Requirements for Seismic Design of Slab-column-seismic-Wall Structures
- 6.7 Requirements for Seismic Design of Tube Structures
- 7 Multi-storey Masonry Buildings and Multi-storey Masonry Buildings with RC Frames on Ground Floors
 - 7.1 General
 - 7.2 Essentials in Calculation
 - 7.3 Details of Seismic Design of Multi-storey Brick Buildings
 - 7.4 Details of Seismic Design of Multi-storey Concrete Block Buildings
 - 7.5 Details of Seismic Design of Multi-storey Masonry Buildings with RC Frames and Seismic-Walls on Ground Floors
- 8 Multi-Storey and Tall Steel Buildings
 - 8.1 General
 - 8.2 Essentials in Calculation
 - 8.3 Details for Steel Frame Structures
 - 8.4 Details for Steel Frame-concentrically-braced Structures
 - 8.5 Details for Steel Frame-eccentrically-braced Structures
- 9 Single-storey Factory Buildings
 - 9.1 Single-storey Factory Buildings with Reinforced Concrete Columns
 - 9.2 Single-storey Steel Factory Buildings
 - 9.3 Single-storey Factory Buildings with Brick Columns
- 10 Large-span Buildings
 - 10.1 Single-storey Spacious Buildings
 - 10.2 Large-span Roof Buildings
- 11 Earth, Wood and Stone Houses
 - 11.1 General
 - 11.2 Unfired Earth Houses
 - 11.3 Wood Houses
 - 11.4 Stone Houses
- 12 Seismically Isolated and Energy-Dissipated Buildings
 - 12.1 General
 - 12.2 Essentials in Design of Seismically Isolated Buildings
 - 12.3 Essentials in Design of Seismic-energy-dissipated Buildings
- 13 Nonstructural Components
 - 13.1 General
 - 13.2 Basic Requirements for Calculation

13.3 Basic Seismic-Measures for Architectural Members

13.4 Essential Measures for Supports of Mechanical and Electrical Components

14 Subterranean Buildings

14.1 General

14.2 Essentials in Calculation

14.3 Seismic Details and Anti-liquefaction Measures

Appendix A The Seismic Precautionary Intensity, Design Basic Acceleration of Ground Motion and Design Earthquake Groups of Main Cities and Towns in China

Appendix B Requirements for Seismic Design of High Strength Concrete Structures

Appendix C Requirements for Seismic Design of Prestressed Concrete Structures

Appendix D Section Seismic Check for the Beam-column Joint Core Zone of Frames

Appendix E Requirements for Seismic Design of the Transfer Storey Structures

Appendix F Requirements for Seismic Design of Reinforced Concrete Small-sized Hollow Block Seismic -Wall Buildings

Appendix G Requirements for Seismic Design of Buildings with Steel Brace-Concrete Frame Structures and Steel Frame-Reinforced Concrete Core Tube Structures

Appendix H Requirements for Seismic Design of Multi-storey Factory Buildings

Appendix J Seismic Effect Adjustment for Transversal Planar-Bent of Single-Storey Factory

Appendix K Longitudinal Seismic Check for Single-Storey Factory

Appendix L Simplified Calculation for Seismically Isolated Design and Seismically Isolated Measures of Masonry Structures

Appendix M Reference Procedures of Performance-based Seismic Design

Explanation of Wording in This Code

List of Quoted Standards

1.0.1

This code is formulated with a view to implementing the relevant laws and regulations on construction engineering and protecting against and mitigating earthquake disasters, carrying out the policy of "prevention first", as well as alleviating the seismic damage of buildings, avoiding casualties and reducing economic loss through seismic precautionary of buildings.

The basic seismic precautionary objectives of buildings which designed and constructed in accordance with this code, are as follows:

1) under the frequent earthquake ground motion with an intensity being less than the local Seismic Precautionary Intensity, the buildings with major structure undamaged or requiring

no repair may continue to serve;

2) under the earthquake ground motion with an intensity being equivalent to the local Seismic Precautionary Intensity, the buildings with possible damage may continue to serve with common repair; or

3) under the rare earthquake ground motion with an intensity being larger than the local Seismic Precautionary Intensity, the buildings shall not collapse or shall be free from such severe damage that may endanger human lives.

If the buildings with special requirements in functions or other aspects are carried out with the seismic performance-based design, more concrete and higher seismic precautionary objectives shall be established.

1.0.2

All the buildings situated on zones of Seismic Precautionary Intensity 6 or above must be carried out with seismic design.

1.0.3

This code is applicable to the seismic design and the isolation and energy-dissipation design of the buildings suited on zones of Seismic Precautionary Intensity 6, 7, 8 and 9. And the seismic performance-based design of buildings may be implemented in accordance with the basic methods specified in this code.

As for the buildings suited on zones where the Seismic Precautionary Intensity is above Intensity 9 and the industrial buildings for special purpose, their seismic design shall be carried out according to the relevant special provisions.

Note: For the purposes of this code, "Seismic Precautionary Intensity 6, 7, 8 and 9" hereinafter is referred to "Intensity 6, 7, 8 and 9".

1.0.4

The Seismic Precautionary Intensity must be determined in accordance with the documents (drawings) examined, approved and issued by the authorities appointed by the State.

1.0.5

Generally, the seismic precautionary intensity of buildings shall be adopted with the basic seismic intensity (the intensity values corresponding to the design basic acceleration of ground motion value in this code) determined according to the "Seismic Ground Motion Parameter Zonation Map of China".