

1 General Provisions

1.0.1 This code is formulated with a view to implementing technical and economic policies of the nation in foundation design, and achieving safety and usability, advanced technology, economy and rationality, quality guarantee and environmental protection.

1.0.2 This code is applicable to the design of foundation of industrial and civil buildings (including structures). The design of collapsible loess, permafrost and expansive soil foundation and the foundation under the action of seismic and mechanical vibration load shall also meet the requirements of the current corresponding professional standard of the nation.

1.0.3 The design of foundation shall persist in the principle of adjusting measures to local conditions, using local materials, protecting environment and saving resources, comprehensively consider such factors as structure type, material condition and construction condition according to geotechnical engineering investigation data, and elaborately conduct.

1.0.4 The design of building foundation shall not only comply with this code, but also those in the current relevant ones of the nation.

2 Terms and Symbols

2.1 Terms

2.1.1 Ground, foundation soils

Soil mass or rock mass which supports foundation.

2.1.2 Foundation

Structure component which transfers various actions borne by the structure to the ground.

2.1.3 Characteristic value of subsoil bearing capacity

Pressure value corresponding to deformation specified within linear deformation section of subsoil pressure deformation curve determined by load test, and its maximum value is the proportion limit value.

2.1.4 Gravity density, unit weight

Gravity borne by rock-soil mass per unit volume, the product of density and gravity acceleration of rock-soil mass.

2.1.5 Rock discontinuity structural plane

Plane which cracks and is easy to crack in rock mass, such as bedding surface, joint, fault, schistosity, etc., also called discontinuous structural plane.

2.1.6 Standard frost penetration

Average value of maximum frost penetration actually measured for more than 10 years in the flat and exposed open area outside the city.

2.1.7 Allowable subsoil deformation

Deformation control value determined in order to guarantee normal use of the building.

2.1.8 Soil-rock composite ground

Ground with larger underlying bed rock surface gradient within the range of main

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