

## <<建筑地基基础设计规范>>

### 图书基本信息

书名：<<建筑地基基础设计规范>>

13位ISBN编号：9787112078455

10位ISBN编号：7112078458

出版时间：2005-12

出版单位：中国建筑工业出版社

作者：中国工程建设标准化协会 译

页数：240

译者：中国工程建设标准化协会

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## 前言

According to the requirements of Document JB [1997] No. 108-Ministry of Construction, that the "Code for the Design of Building Foundations" GBJ 7—89, has been revised by the China Academy of Building Research together with the Design, the Investigation and Survey, the Construction, the Research as well as the Teaching relevant units. In the period of revision, the code revision group carried out various studies on specific topics, investigated and summarized the recent domestic practical experiences and accepted the new research results from concerned domain, meanwhile, the various ways were used by the code revision group to solicit widespread opinions of the Design, the Investigation and Survey, the Construction, the Research as well as the Teaching relevant units, the code was born out through repeated discussions, amendments and trial designs, finally, the new version of code was decided after examination. The revised edition of the Code includes 10 chapters and 22 appendices. The main revised contents are as follows: The applied range and the calculated method of the ultimate limit states and the serviceability limit states in the design of building foundations are clearly defined; the principle of deformation controlling design has been emphasized, satisfying the requirements for the serviceability function of building; the classification for rocks and the classification for the frost heaving of soils are detailed; the calculated methods for the ground deformation and the resilient deformation of limited compressive stratum are added; the design method of rock slope retainer is added; the design method of compound ground is added; the design method for raft foundation of tall buildings is added; the design method for the settlement of pile foundation is added; the design method for foundation pit works is added; the contents of inspection and monitoring for the ground, foundation are added. The stipulations for design of shell foundation have been abolished.

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### 内容概要

According to the requirements of Document JB [1997] No. 108-Ministry of Construction, that the "Code for the Design of Building Foundations" GBJ 7—89, has been revised by the China Academy of Building Research together with the Design, the Investigation and Survey, the Construction, the Research as well as the Teaching relevant units.

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## 章节摘录

插图：7.1.1 The feeble grounds denote the grounds, which are consisted mainly of mud, muddy soil, alluvial filled soil, miscellaneous filled soil or other soil strata with high compressibility. When within the local range of building's ground exists the high compressibility soil stratum, that shall be considered as the local feeble soil stratum. 7.1.2 When in the field survey, the uniformity, composition, distributing range and properties for soil of the feeble soil strata shall be ascertained. The condition of drainage consolidation shall also be understood for the alluvial filled soil. The fundamental factors such as the history of piled up, the stability, collapsibility under self-weight etc. shall be ascertained and defined for the miscellaneous filled soil. 7.1.3 When in the design, the interaction of upper structure and ground shall be taken into account. The comprehensive analysis shall be carried out concerning with the configuration of buildings, the loading conditions, the type of structures and the geological conditions to determine the reasonable architectural measures, structural measures and the treatment method of grounds. 7.1.4 When in the construction stage, the attention for the protection of bottom surface of mud or muddy soil foundation trench shall be paid to reduce the disturbance during construction. For buildings with comparatively large difference in loadings, hence, the heavy, high parts may be built first, then the light, lower parts may be followed. 7.1.5 The structures or the group structures (such as silos, oil tanks etc.) with comparatively large variable loads, their loading velocity shall be controlled and their time interval of loadings shall be grasped, according to their settlement conditions at the early service time, or adjusting the distribution of variable loads to avoid the excessive tilting.

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### 编辑推荐

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