

# 基坑工程设计、施工和监测中应关注的若干问题

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## SEVERAL ISSUES IN DESIGN, CONSTRUCTION AND MONITORING OF FOUNDATION PITS

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摘要

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**摘要** 由于岩土工程问题的复杂性和基坑工程问题的特殊性, 基坑工程设计不可能如上部结构一样做到一步到位、一次完成, 需根据基坑施工过程的工况变化和监测信息, 实行动态设计和信息化施工。从土工参数取值、水土压力计算、支护结构计算模型、软土地基的流变性和施工过程的多工况性等方面, 深入分析岩土工程的复杂性和基坑工程的特殊性, 剖析几起典型基坑工程事故的共性原因, 提出基坑工程设计、施工和监测中应予以关注的若干问题。

**关键词:** [基坑工程](#) [基坑事故分析](#) [监测](#) [动态设计](#) [信息化施工](#)

**Abstract:** The foundation pits, as their complications in the respects of geotechnical engineering and particularities in the construction, can not be designed as the aboveground structures which are accomplished in one step. They should be designed in a dynamic manner and constructed in an informatization way on the basis of working conditions and monitoring informations in the process of foundation pit construction. Considering many aspects such as geotechnical parameters, calculation of water and soil pressures, calculation model of retaining structure, soft soil rheology and time-space effect, the complication of geotechnical engineering and the particularity of the foundation pit engineering are deeply analyzed; and the common reasons to several accidents arising from the foundation pit construction are anatomized. Meanwhile, several issues which should be concerned in the design, construction and monitoring of the foundation pit engineering are proposed.

**Keywords:** [foundation pit engineering](#) [analysis of foundation pit accident](#) [monitoring](#) [dynamic design](#) [informatization construction](#)

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