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重大工程实践

上海地铁隧道建设中工程地质条件及主要地质问题研究

史玉金

上海市地质调查研究院 上海 200072

摘要:

随着上海地铁隧道建设大规模的展开,建设中面临的工程地质问题日趋凸现。本文结合上海市特有的地质条件,分析了与地铁隧道建设相关的工程地质条件,包括工程地质结构特征及浅部含水层地下水位特征。在此基础上,对地铁车站基坑开挖以及区间隧道施工可能面临的工程地质问题进行了分析研究,绘制了市中心地区工程地质问题严重性程度分区图,可为工程设计、施工提供从参考依据。

关键词: 地铁隧道 工程地质条件 地下水位 工程地质问题

STUDY ON ENGINEERING GEOLOGICAL CONDITION AND MAJOR GEOLOGICAL PROBLEMS DURING THE CONSTRUCTION OF METROS AND TUNNELS IN SHANGHAI AREA

SHI Yujin

Shanghai Institute, Geological Survey, Shanghai

Abstract:

During the construction of great amount of metros and tunnels,more engineering geological problems have emerged.Based on the particular geological conditions in Shanghai area,this paper analyzed the engineering geological condition related to the construction of metro and tunnel projects,which includes structure character of engineering geological stratum and groundwater level situation

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of shallow aquifers. Then this paper studied the major engineering geological problems induced during the construction, and some division maps of engineering geological problem grade have been made out, which can be the guidance for project design and construction.

Keywords: Metro and tunnel Engineering geological condition Underground water level Engineering geological problem

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通讯作者:

作者简介: 史玉金, 从事岩土工程及地震环境. Email: shiyujin1976@163.com
作者Email:

参考文献:

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