岩石力学与工程学报 2006 25 (2006-S2): 3337 ISSN: 1000-6915 CN: 42-1397/O3

广东省地质构造与岩土工程基本特征

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收稿日期 2006-5-18 修回日期 2006-7-11 网络版发布日期 2007-1-30 接受日期 2006-5-18

摘要

广东省自震旦纪以来，地层发育完善，构造岩浆活动强烈，不同地层岩石和土的工程特征显著。在区域地质构造基础上，结合岩土工程实例，阐述珠江三角洲等主要地区和广州等主要城市的地质构造与岩土工程基本特征。指出结合区域地质构造条件、宏观与微观相结合以正确审视历史经验教训以及更经济合理地处理具体岩土工程问题，可产生巨大的社会、经济效益。

关键词 工程地质；地质构造；岩土工程；基本特征；工程实例

分类号

GEOLOGICAL STRUCTURE AND BASIC GEOTECHNICAL CHARACTERISTICS IN GUANGDONG PROVINCE

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Abstract

Since Sinian period，the strata of Guangdong Province have been well-developed. The lithostratigraphy and structural magma keep active，so the engineering characteristics of different layers of rocks and soils vary greatly. Based on the regional tectonics and practical engineering cases，the geological structural features and basic geotechnical characteristics of the main regions such as Zhujiang River Delta and Guangzhou City are discussed. If geotechnical problems are dealt with in the effective way with the cognition of regional geological structural conditions，and if macro- or micro- experience and lesson are adopted，large social benefit will be achieved.

Key words engineering geology；geological structure；geotechnical engineering；basic characteristics；engineering cases

DOI:

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