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北京山前平原区第四系三维结构调查方法研究 点此下载全文

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摘要:

随着我国城市化进程的加快,城市供水、地下空间资源利用、建筑物地基处理、垃圾安全处置等工作,起是许多在第四纪沉积物基础上建设的大都市,都面临着地震、活动断裂、地面沉降、水资源紧缺、建设空间不足市作为世界上少数几个著名的巨型城市之一,也面临着同样的问题。这些城市的生存和发展与第四纪松散沉积物问题的发生,需要详细了解第四系的三维地质结构,提供地质体空间详实的展布资料。本文在详细地介绍了北京点的基础上,对北京市平原区第四纪松散沉积物开展三维地质结构调查的方法进行了深入研究,提出了建立三维此基础上建立了北京平原区三维立体地质结构数字模型。为在城市地区开展第四纪地质调查工作进行了新探索,

关键词: 第四纪沉积物 三维地质结构 冲洪积扇

Quaternary Geological Features of Beijing Piedmont Plain Using 3 D Structural Metho

Fund Project:

Abstract:

With China's urbanization speeding up, increasing urban construction such as city water sup underground space resources, ground improvement, garbage disposal are closely related to geologic metropolitan cities building on the Quaternary are being threatened from earthquake, active fault shortage, scarce land, environmental deterioration, etc. Beijing, as one of the few gigantic metroworld, has no exception. But the subsistence and development of these cities are indispensable to unconsolidated sediments. Therefore, it is essential to understand the 3-D geologic structures of will provide detailed spatial distribution data of geological bodies so as to prevent and reduce mentioned disasters. This study based on the distribution, type and features of the Beijing Quate approach to establish the 3-D geological structural model, upon which the 3-D digital model of piedmont plain in Beijing was established. This provides a new mean for conducting geological invand achieved a satisfactory application result.

Keywords:Quaternary sediments 3 D geological structure alluvial and flood fan