

穿越古滑坡川主寺隧道施工地质问题及整治措施

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GEOLOGICAL PROBLEMS AND TREATMENT MEASURES FOR HIGHWAY TUNNEL THROUGH ANCIENT LANDSLIDE

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摘要 由于在勘察设计阶段对地质条件的认识不足,或者因改善公路线型的要求,穿越大型古滑坡体的隧道工程难以避免。川主寺隧道即是一个穿越了大型古滑坡体的公路隧道。文章以该隧道赋存的地质条件为基础,初步讨论了古滑坡的基本特征,通过现场调研分析了穿越该古滑坡隧道建设中出现的洞口滑坡以及碎裂围岩坍塌等地质问题。并提出相应的整治措施。其研究成果对于穿越古滑坡隧道的修建具有重要的指导意义。

关键词: 穿越古滑坡 川主寺隧道 地质问题 洞口滑坡 围岩坍塌 整治措施

Abstract: Due to lacking of knowledge of geological conditions in the survey and design stage, or requirements to improve the road line, highway tunnels can be constructed in large ancient landslide mass. For example, the Chuanzhusi tunnel is constructed in a large ancient landslide. This paper bases on the geological conditions of landslide occurrence and the tunnel. A detailed analysis is done on the system characteristics of the ancient landslide. Through investigation and by the construction of geological and mechanical methods, this paper studies the tunneling in through the ancient landslide. It turns up the geological characteristics of the problem, such as holes, rocks and collapse and deformation and failure mechanisms, and suggests remediation measures. The research result for the construction of the tunnel passing through the ancient landslide has an important significance.

Key words: [Passing through ancient landslide](#) [Chuanzhusi tunnel](#) [Geological problems](#) [Slide hole](#) [Rock collapse](#) [Treatment measures](#)

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