

轨地下车站主体结构设计与施工研究

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摘要 重庆轻轨工程临江门车站主体洞室开挖宽度达23.040 m, 开挖高度达20.578 m。车站最小覆盖层厚度为10.5 m, 属于超浅埋单跨车站工程。按新奥法原理进行设计, 结构采用等截面复合式衬砌, 施工采用双侧壁台阶组合法暗挖施工, 工程设计难度大、施工风险高。以该工程结构设计和施工方案研究为依托, 详细介绍了工程的复杂地质环境条件、主要结构形式、施工难点。

关键词 [隧道工程; 设计; 施工; 结构; 车站](#)

分类号

STUDY ON DESIGN AND CONSTRUCTION OF MAIN STRUCTURE OF LIGHT RAIL UNDERGROUND STATION

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Abstract

At Linjiangmen station of Chongqing Light Rail Project, the excavation width of the main structure is 23.040 m, and the height is 50.578 m. But the smallest thickness of cover rock masses is only 10.5 m. It is a super-shallow-berried single-span tunnel project. The New Austrian Tunneling Method is used in design of station, constant-section composite lining is employed for the station structure; and the construction technique of double-side-drift buried excavation is adopted. The structure design and construction scheme are studied, in which the geologic condition, main structure and construction difficulty are expounded.

Key words [tunneling engineering; design; construction; structure; station](#)

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