

论文

强夯在威乳高速公路改建工程中的应用研究及一般性推广

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摘要:

旧路改建高速公路会遇到诸如地基不均匀沉降及老路堤压实度低等问题,这些问题限制了这项技术的应用.依托威乳高速公路,研究了强夯在旧路改建高速公路中的应用技术.通过试夯及现场对超静孔隙水压力、动土应力测试及压实度检测,确定了地基与路堤强夯工艺参数.夯后对路堤进行弯沉、回弹测试及路堤沉降观测分析发现强夯方案完全能满足规范要求.最后对威乳路试夯结果进行一般性推广,得到了不同高度路堤对应的止夯标准.

关键词: 道路工程 旧路改建 强夯 不均匀沉降 止夯标准

The application of dynamic compaction to the reconstruction of old road to expressway and its generalization

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Abstract:

In the reconstruction of old road to expressway, there are some difficulties constraining the reconstruction such as the differential settlement of sub-grade and the relatively low compaction degree of old embankment. The application of dynamic compaction was studied in the Weihai-Rushan expressway reconstruction engineering. Through the field measurements of excess pore water pressure, dynamic soil stress and soil compaction degree, dynamic compaction parameters for sub-grade and embankment were respectively obtained. After the dynamic compaction, the measurements of the deflection, resilience modulus and settlement showed the dynamic compaction construction method could meet the expressway construction specifications. The dynamic compaction test results were generalized and the tamping-stopping criterion of embankments with different height was put forth.

Keywords: road engineering old road reconstruction dynamic compaction differential settlement tamping-stopping criterion

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