

宁波地区典型土层地基承载力确定

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METHODS FOR BEARING CAPACITY DETERMINATION OF TYPICAL SOIL FOUNDATIONS IN NINGBO REGION

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摘要 基于宁波轨道交通1号线和2号线一期工程的静力触探、标准贯入、扁铲和十字板等原位试验数据,采用已有的经验公式预测了宁波地区各典型土层的地基承载力。然后,根据K-S检验法提出了各经验公式预测结果的分布概型及数字特征。在此基础上,通过与宁波地区地基承载力经验值对比,提出宁波地区典型土层地基承载力的建议值。研究结果可对宁波地区岩土工程勘察设计中地基承载力的确定提供参考。

关键词: 静力触探试验 标准贯入试验 十字板剪切试验 扁铲试验 地基承载力

Abstract: This paper is based on the first-stage in-situ test results of the Line 1 and Line 2 in Ningbo rail transit system. The tests include static cone penetration, standard penetration test, standard penetration test, and vane shear test. Accordingly, the foundation bearing capacities of the typical soils in Ningbo region are estimated and predicted with empirical formula. Then, the distributions and numerical characteristics of the predicted results are presented on basis of the K-S inspection method. Based on above analysis results, the recommended foundation bearing capacities of the typical soils are proposed after their comparisons with the empirical foundation bearing capacities of the typical soils in Ningbo area. The research findings can provide scientific references to determine the value of the bearing capacity of the geotechnical investigation and design in Ningbo area.

Key words: Static cone penetration Standard penetration test Vane shear test Flat dilatometer test Foundation bearing capacity

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