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寒区湿地软土固结变形特性试验研究(PDF)

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Title: Test study on consolidation behaviors of wetland soft soil in cold area

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关键词: [寒区](#); [湿地软土](#); [单向固结压缩试验](#); [固结系数](#); [次固结系数](#)

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摘要: 软土的成因不同,其工程性质存在着一定的差异,路基的固结沉降也不一样。为了研究寒区湿地软土固结变形特性,弄清其固结和次固结系数变化规律,对两类软土进行了单向固结压缩试验。试验结果表明,软土在不同的固结压力作用下,其孔隙比-时间对数曲线展布特征有较大的不同,说明固结压力对寒区湿地软土的主、次固结的划分有影响;寒区湿地软土主固结系数随固结压力的增大而减小,次固结系数随固结压力的增大而增大,最后两者都趋于稳定。

Abstract: As the different cause of formation, the engineering geological characteristics of soft soils are different, so the consolidation settlement of subgrade is different. Based on a series of laboratory consolidation test of wetland soft soil in cold area, the consolidation behaviors of soft soils in cold area and their change rule of the coefficient of consolidation and coefficient of secondary consolidation were researched. The test results indicate that with the change of consolidation pressures, the porosity-time logarithm curves of soil have a larger difference, which shows that the division of primary and secondary consolidations of wetland soft soil in cold area is related to consolidation pressures. With the increase of consolidation pressures, the coefficient of consolidation reduces and the coefficient of secondary consolidation increases, and finally both tend to stability.

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