



## 吹填土在冲击荷载下的渗透性试验研究

Test study on permeability of hydraulic fill under impa

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英文关键词: [impact loading](#) [hydraulic fill](#) [permeability](#) [fine content](#) [falling head test](#)

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### 中文摘要

通过配制不同细粒含量的吹填土样,在自行改装设计的渗透仪内进行了冲击荷载作用下的渗透性试验,试验中考虑了细粒含量对渗透系数的影响。试验结果表明,细粒含量对冲击荷载下吹填土渗透系数的影响存在一个“分界点”,范围大致在20%~30%之间。建立了吹填土在冲击荷载作用后渗透系数随时间变化的预测公式。

### 英文摘要

The authors modified a falling head permeameter in order to explore the hydraulic conductivity of hydraulic fill with different fine content after hitting. Tests were conducted to investigate the effect of impact loading on permeability coefficient of hydraulic fill with different fine content and the interval time after hitting. It was found that the effect of fine content on permeability of hydraulic fill was a "dividing point" which was between 20% and 30%. Based on the test results, an approximate formula was developed to predict the permeability coefficient of hydraulic fill with different fine content after hitting.