冲击载荷下饱和砂土渗流和破坏的实验研究

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收稿日期 修回日期 网络版发布日期 接受日期

摘要 对饱和破土在冲击载荷下发现的变形和流动效应进行了落锤模拟实验研究,发现砂土骨架出现纵向排水通道和横向断裂等现象,对可能影响这些现象的主要因素进行了对比的实验,对上述实验现象进行了初步的解释.

关键词 饱和砂土 冲击 渗流 裂纹

分类号

EXPERIMENTAL STUDY ON PERMEABILITY AND SETTLEMENT OF SATURATED SAND UNDER IMPACT LOADING

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Abstract

An experimental study on the deformation and filtration of saturated sands underimpact loading is carried out by examining the behavior of a saturated sand column dropping tothe ground. The longitudinal drainage pathways and horizontal cracks in the skeleton of saturatedsands are discovered. By means of analyzing the images, the phenomena (Occurring in sand sampleNo.1) can be summarized as follows: (1) Some horizontal cracks cross the full sections, generally, thenumber of these cracks is three. Some small ...

Key words saturated sand impact permeability crack

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