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### 论文

强度差异对两介质接触面抗剪性能的影响

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摘要:

从两介质强度差异入手,通过构建不同强度比的两介质试件,进行不同法向力下的直剪试验,探讨了两介质强度性质差异对粗糙界面剪切性能的影响,并对其作用机制进行了分析;同时根据理论分析及试验结果完善了抗剪强度公式,将提出的抗剪强度公式与其他研究人员试验获得的剪切试验结果作了对比,证实了该剪切强度公式的正确性。

关键词: 两介质模型 强度比 剪切性能 影响机制

Effect of strength difference on shear behaviors of bi material interface

#### Abstract:

Strength difference's effect was studied for bi material shearing. By making different strength ratios of bi material specimens and employing direct shear, the change of shear properties of the interface was obtained and strength effect mechanism on shear behaviours was analysed. Based on the test result and analysis, the shear strength formula, proposed by the authors before, which mainly included rough factors of interface appearance, was modified. Finally, the formula was compared with test results provided by other researchers and its validity was testified.

Keywords: bi material model; strength ratio; shear behaviours; effect mechanism

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