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## 振动频率对饱和软粘土相关性能的影响(PDF)

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Title: Effect of vibration frequency on relevant behavior of satulated soft clay

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关键词: [振动频率](#); [循环荷载](#); [动弹模量](#); [动强度](#)

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摘要: 通过循环三轴试验研究,振动频率对软粘土应力-应变关系、孔压、动强度以及动弹量的影响。以转折应变为破坏标准,得到了不同振动频率下软粘土的动强度曲线。随着振动频率的增大,土体动强度增大,但当振动频率大于2 Hz后,动强度的增幅减小。随着动应变的增大,动弹模量逐渐减小;频率越低,相同动应变下的动弹量越小,频率越高,动弹量越大。

Abstract: The effect of vibration frequency on stress-strain, pore water pressure, dynamic strength and elastic modulus was investigated by cyclic triaxial tests. Taking the turning strain as the failure criterion, the dynamic strength curve was obtained. It shows that the dynamic strength increases with the increase of frequency. When the frequency is larger than 2Hz, the increase of dynamic strength becomes less significant. The dynamic elastic modulus decreases with increase of dynamic strain and increases with increase of vibration frequency.

### 参考文献/REFERENCES

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