عنوان مقاله:

Construction of multi -directional dynamic loadingapparatus to simulate earthquake in soil specimens

محل انتشار:

نهمین کنگره بین المللی مهندسی عمران (سال: 1391)

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خلاصه مقاله:

Determination of dynamic properties of soils in laboratory such as damping ratio and shear modulus in laboratory is possible by simulation of various earthquake waves. For these purpose some apparatus has been developed such as cyclic triaxial, cyclic simple shear, cyclic torsion shear, resonant column and etcwhich of them is for simulate a particular situation.For example cyclic triaxial apparatus simulate P wave of earthquake by applying cyclicdeviatoric stress and also cyclic simple shear apparatus is used for S wave simulation. When an earthquake happened, various kinds of waves have different effects on soils. Therefore simultaneous applying of different load from different direction is more suitable for simulation of an earthquake. So we decided construct an apparatus that be able to apply loads from various directions

کلمات کلیدی:

cyclic triaxial test, cyclic simple shear test, damping ratio shear modulus