

عنوان مقاله:

RECYCLED CARPET WASTE STRIPS AS REINFORCEMENT IN SAND SLOPES

محل انتشار:

ششمین کنفرانس بین المللی زلزله شناسی و مهندسی زلزله (سال: 1390)

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خلاصه مقاله:

In order to investigate seismic behavior of slopes, made of reinforced sand, a series of shaking table tests were performed. Physical model experiments were performed on a 1g shaking table with the objectives of : (a) investigating the mechanisms of seismically induced permanent deformations in slopes, (b) assessing the results of these scale model experiments, and comparing measured deformations with the computed parameters of the prototype models. Model slopes were prepared in a box with length of 1.8m, width of 0.5m and height of 0.7m. The recent trend in finding solution to geotechnical engineering works has resulted in various construction techniques that are based on developments of new materials and concepts. One of them is the used of carpet waste stripes that distributed in mixture with soil randomly. Sand slopes were reinforced with randomly distributed carpet waste stripes. During application of cyclic loading on unsaturated soil, failure surface and acceleration were monitored in models. Result of this study shows the effects of soil reinforcement during cyclic loading. These results are very useful for study the behavior of different soil structure in which soil is reinforced by mentioned type of reinforcements

کلمات کلیدی:

Seismic Loading, Slope, Reinforced Soil, Sand, Shaking Table

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