عنوان مقاله:

Slope stability against horizontal component of earthquake compared by horizontal slice method, vertical slice method and shaking table test results

محل انتشار:

نهمین کنگره بین المللی مهندسی عمران (سال: 1391)

تعداد صفحات اصل مقاله: 5

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خلاصه مقاله:

Slopes may be stable, under static loading when subjected to dynamic loading, they may not be stable. Here the effect of horizontal component of earthquake was studied with both horizontal (HSM) and vertical slice method, and the results were compared them with shaking table results. It was found that horizontal slice method gives better result for this case, it has also some other benefits such as the ability of considering amplification of earthquake and layered soils easily. Inter slice forces are considering in both horizontal and vertical method. It is assumed that the place of inter slice forces are known in HSM and morganestern-price method is used for vertical slice method. Shaking table results are obtained from litterateur.

کلمات کلیدی:

slope stability, HSM, inter slice forces

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