عنوان مقاله:

Evaluation of active and passive seismic earth pressures against retaining walls using finite element and limit analysis

محل انتشار:

یازدهمین کنگره ملی مهندسی عمران (سال: 1398)

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خلاصه مقاله:

Knowledge of lateral seismic earth pressure behind retaining walls and its determination in stability problems is vital in civil engineering grounds, which is typically calculated by using the modified Coulomb's formulation denoted by Mononobe-Okabe method. In this paper, the lower bound theorem of limit analysis in conjunction with the finite element theory under the pseudo-static loading condition was invoked to provide a more accurate estimation of the active and passive seismic earth pressures and respective coefficients of earth pressure accordingly. An accuracy of the results of the current study is evaluated by comparison of the findings with those of literature

کلمات کلیدی:

Retaining Wall, Lower bound Limit Analysis, Finite Element, Seismic Earth Pressure

لینک ثابت مقاله در پایگاه سیویلیکا:

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