

عنوان مقاله:

.Proposed Dynamic Soil Pressure Diagram On Rigid Walls

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خلاصه مقاله:

Using finite element nonlinear analysis, the dynamic soil pressure on perimeter retaining walls of structures is investigated. Nonlinear Drucker Prager failure criterion is used to model the soil behavior in the near field. The far field soil and the middle structure are assumed to behave as linear elastic materials. The soil-wall interface behavior is modeled incorporating nonlinear interface elements. The internal friction angle of the soil is found to be an important factor in the dynamic lateral pressure that has been neglected in the previous investigations. Furthermore, a new diagram is proposed to determine lateral seismic soil thrust on rigid walls.

کلمات کلیدی:

Retaining Walls, Rigid Walls, Dynamic pressure, Soil Structure Interaction

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