

عنوان مقاله:

Seismic response analysis of layered soils considering effect of surcharge mass

محل انتشار:

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خلاصه مقاله:

Conventional seismic site response and free field analysis of layered soils does not consider the effect of surcharge mass on the top layer. Surcharge mass may develop extra inertial force to the soil and, hence, significantly affect on the results of seismic ground response analysis. Equation of motion, wave equation, is solved in this paper using amended boundary conditions which effectively takes the impact of surcharge mass into account. Computer program is developed in this study based on the solution developed for wave equation. Effects of geometrical and mechanical properties of soil layers and especially the impact of surcharge mass is investigated using the current approach and the program developed. Result obtained are presented and discussed throughout the paper

کلمات کلیدی:

site response, layered soil, surcharge, ground response

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