

عنوان مقاله:

Seismic Evaluation of Tall Reinforced Earth Retaining Walls

محل انتشار:

چهارمین کنفرانس بین المللی مقاوم سازی (سال: 1391)

تعداد صفحات اصل مقاله: 11

نویسندگان:

Seyed Hesameddin Ghodratiان - *GhodratiانGraduated student Amirkabir university of technology Tehran Iran*

Kazem Fakharian - *Assistant professor, Amirkabir university of technology, Tehran, Iran*

Seyed Mohyeddin Ghodratiان - *School of civil engineering, University of Tehran, Tehran, Iran*

خلاصه مقاله:

seismic responses of reinforced earth retaining walls have already been studied by many researchers. All the researches and constructions in practice have proven satisfactory performance of the reinforced walls. The effect of the height of such walls on the seismic response is of great importance, regarding the topography being located in a seismically active zone and the construction demand for tall retaining walls in a metropolitan capital. Therefore, in this research it was decided to study the seismic performance of tall reinforced retaining walls. First of all, a 17-m high reinforced retaining wall has been selected from literature as reference wall for analytical case study. Then, the wall has been modeled by establishing a numerical model for dynamic analysis using FLAC-2D, a two-dimensional finite difference software. Finally, seismic response of tall reinforced earth retaining wall was investigated through static and dynamic analyses.

کلمات کلیدی:

Reinforced Earth wall, Tall wall, FLAC

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/206935>

