

عنوان مقاله:

The Effect of Landslide at Dam Reservoirs on Seismic Behavior of Earth Dams

محل انتشار:

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خلاصه مقاله:

Landslide-induced wave in lakes or offshore is a natural hazard of significant concern throughout the world. Landslides can entre reservoirs and depending on their velocity, generate impulsive waves, which propagate, reaching sillages and causing considerable destructions. So, need for research about landslides effect as one of the most important destructive phenomena on earth dams during earthquake is important more than ever. The seismic behavior of an earth dam depends on the probability of landslide in its reservoir. Despite the previous studies that has been done on the landslides without dynamic analysis, this study is investigated the effect of landslide on seismic behavior of earth dam during an earthquake by Slope/W software which is from Geostudio series based on Finite-Element method. Finally, it can be concluded that safety factor during earthquake for earth dams decreased approximately 40 percent. On the other hand, the probability of landslide and its undesirable effects on the earth dams in the presence of reservoir water increased significantly

کلمات کلیدی:

Landslide, Earth Dams, Seismic behavior, Geostudio, Safety factor

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