

عنوان مقاله:

Rockfill dams overtopping risk analysis

محل انتشار:

چهارمین کنفرانس بین‌المللی رفتار بلندمدت و فن‌آوری‌های نوسازی سازگار با محیط زیست سدها (سال: 1396)

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خلاصه مقاله:

In hydraulic structures which are located in a natural environment, there is the possibility of system failure with increasing external forces acting on the structures. Stability and crest settlement of rockfill dams is a major factor in design which in some cases is very important (after construction and impoundment). Particle breakage in rockfill dams is the main cause of vertical deformations. Particle breakage changes resistance and deformation behavior of rockfill materials and this affects the performance of dams. Forebankment dams the highest risk of damage is caused by water overtopping over the dams. The purpose of this research is to study rockfill dams settlement and freeboard height reduction that affect performance of dams, especially during the heavy flooding. Increasing in the probability of dams overtopping results in total destruction of the dam. In this research the overtopping risk analysis method has been studied and the effective parameters on overtopping risk analysis and the effect of particle breakage on overtopping risk of rockfill dams was investigated

کلمات کلیدی:

particle breakage, rockfill dams, overtopping risk, Mahabad dam

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