## عنوان مقاله:

(Uncertainty analysis of the gravity dam s stability using fuzzy set theory (a case study on Folsom dam

### محل انتشار:

ينجمين همايش و نمايشگاه سد و تونل ايران (سال: 1397)

تعداد صفحات اصل مقاله: 9

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#### خلاصه مقاله:

This paper introduces a methodology for uncertainty analysis in gravity dams stability analysis drawing on the fuzzy set theory. For this purpose, the uncertainty analysis and risk identification of stability of Folsom gravity dam has been discussed using fuzzy sets theory with α-cut methodand ANSYS, CADAM software. The results of uncertainty analysis showed that the crisp safety factors might be highly affected by the input uncertainties. For instance,±10% uncertainty in the design parameters could result in about -267.57 to +83.24% uncertainty in the maximum tensile .stress in the heel of dam

## کلمات کلیدی:

.Fuzzy set, Folsom dam, uncertainty analysis

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/854656

