

عنوان مقاله:

Numerical study of souring effect of L-shaped crowns on erosion pattern bridge fulcrum

محل انتشار:

چهارمین کنفرانس بین المللی پژوهش در علوم و مهندسی (سال: 1398)

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خلاصه مقاله:

In this study, the effect of two full-float crowns on reducing scouring around the axial axially was evaluated numerically using flow 3d software and the results were compared with the same laboratory study and a useful application graphic was extracted in this field. It was determined that the dimensions of the crown have a significant effect on its performance. The results showed that with increasing crown dimensions its performance improves. by comparing two types of crowns, it was found that if the crown reaches along the length of more than half the support length, the crowns of the el form more effective than the full crown. The crowns are better off because they do not prevent the movement of sediments from the rising vortex activity at the bottom of the arm; on the other hand, the crowns of the shape due to the smaller area than the crowns, if applicable, are applied. Economically, they will be more economical

کلمات کلیدی:

Scouring, Bridge base, Crown, Shape, Flow 3D Software

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<https://civilica.com/doc/936348>

