

عنوان مقاله:

A review of prediction and estimating the depth of scour phenomenon at the piers of a circular bridge

محل انتشار:

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خلاصه مقاله:

One of the most important factors in the destruction of bridges is the phenomenon of scouring at the piers of the bridge, which has led to a lot of damage so far. For this purpose, it is necessary to predict and estimate the depth of scour. On the other hand, due to the complexity of the flow around the bridge pier, it is very difficult to obtain a general empirical relationship that can provide an accurate estimate of scour depth; In this article, first a review of scouring types, scouring formation mechanism and effective factors in this phenomenon has been done and then the common methods of estimating scouring depth including laboratory methods and other methods, mainly in two categories of classification and Have been evaluated. The relative advantages and disadvantages of these methods have been studied in general.

کلمات کلیدی:

Bridge piers scouring, estimating the scouring depth, laboratory model, scouring control, bridge piers

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