عنوان مقاله:

Comparison of Non-uniform sediment transportation rate calculation between two highly-accepted methods

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خلاصه مقاله:

History shows that quantitative estimation of sediment transportation has played a substantial role in river engineering. The non-uniformity of substrate sediment has a direct effect on sediment load transport rate. This rate in the bed in non-uniform grain size is significantly different from when uniform materials are considered. As a result, many researchers have tried to find a solution to calculate the sediment load in non-uniform grain size. In this article, the results of research by Bavosheng Wu-Molinas, Meyer-Peter, and Müller have been compared. After that, the total sediment load is compared to find out which method has more transportation rate. Finally, it is observed that the amount of sediment load transported by the Bavosheng Wu-Molinas is more than Meyer-Peter and Müller.

کلمات کلیدی:

non-uniform sediment, Transportation rate, Wu-Molinas method, Meyer-Peter and Müller method, sediment transport calculation

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