

عنوان مقاله:

EXPERIMENTAL STUDY ON THE EFFECT OF SEDIMENT SHAPE ON JUMP LENGTH UNDER ASYMMETRICAL WAVES

محل انتشار:

دوازدهمین همایش بین المللی سواحل، بنادر و سازه های دریایی (سال: 1395)

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خلاصه مقاله:

In the coastal zone, sediment transport is one of the most important processes that have direct impact on sediment transport and overall morphological evolution of coastline. The part of a beach that is frequently covered by uprushes and exposed by return of water seaward is named swash zone. It is the boundary condition for the integrated domain of models of the coastal zone [1]. The flow regime in the swash zone contains a number of highly asymmetric waves. For attaining insight to the swash zone sediment transport, it is necessary to develop an extensive series of experimental and field measurements in such flow condition to verify the computational results of sediment transport [2]. Studies on the effect of the shape of particles on the rate of sediment transport are more focused on unidirectional currents [3, 4]. However, the influence of the particle shape on the sediment response to the waves and in particular asymmetric waves that experience in the swash zone is questionable. Scope of the present study is an experimental study on the effect of the sediment shape on the particle jump length under highly asymmetrical single waves for implication in the swash zone.

کلمات کلیدی:

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