عنوان مقاله:

Two-Dimensional Numerical Simulation of Flow and Geo-Morphological Processes near the Headlands by using Unstructured Grid

محل انتشار:

ششمین کنفرانس بین المللی مهندسی عمران (سال: 1382)

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خلاصه مقاله:

Details of a Two-dimensional numerical model for simulation of flow and sediment transport are given herein. The model simulates flow and geo-morphological processes in unsteady state condition simultaneously. The depth averaged Reynolds shallow water equations have been used for simulation of flow. The non-equilibrium method (by solving convection and diffusion equation) was used for sediment transport modeling.The solution scheme is finite volume method on the basis of flux splitting vector. The computational grid of this model is triangular unstructured with the variable size. Using the model for simulation of flow and sediment transport in a partially closed channel and comparing the results showed that the results obtained by the developed model were in reasonable agreement with the other models cited

کلمات کلیدی:

flow, geo-morphological processes, shallow water, unstructured grid