عنوان مقاله:

NUMERICAL MODELING OF WAVE PROPAGATION OVER IRREGULAR TOPOGRAPHY

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خلاصه مقاله:

The shallow water equations have wide applications in the ocean and hydraulic engineering. Several techniques have been published to solve the shallow water equations to model free surface flows. In recent years numerical model of flow over an irregular bed has been considered [1]. In the present work, the 1D shallow water equations for flow over arbitrary bottom topography is used and the HLLC method is selected for flux modeling. To achieve the second-order accuracy, the WAF method is selected and a quasistationary test case presented by Leveque[2] was chosen to demonstrate the capability of the present model for computation involving small perturbations of the water surface.

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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