

عنوان مقاله:

Effective Parameters on Hydraulic Stability of rubble mound breakwater

محل انتشار:

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خلاصه مقاله:

Breakwaters have an important role in creating a safe and secure area for offshore structures and ships. damaging and destroying breakwater can be catastrophic. In recentyears, the stability of breakwaters has become a fundamental issue in engineering. The main purpose of this study is to investigate significant parameters affecting the hydraulic stability of rubble mound breakwaters. this paper, is to use CFD modeling for the problem of flow and phase distribution. Several CFD codes have been successfully used to predict void fraction profiles in and phase distribution applications. Generally, breakwater stability consists of two categories, hydraulic stability and structural stability. In this study, the parameters Affects both structural and hydraulic stability are introduced. These parameters include wave height, wave frequency, berm level, berm width, water depth, and structural slope. Numerical results are compared with the standard experimental and theoretical results available in the literature. The results show that wave height has the most significant effect on the hydraulic stability of rubble mound breakwater

کلمات کلیدی: rubble mound, Breakwater, Hydraulic stability, CFD simulation

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