## عنوان مقاله:

INVESTIGATION ON THE EFFECTS OF SUBMERGED BREAKWATER ON TSUNAMI RUN-UP

سيزدهمين همايش بين المللي سواحل، بنادر و سازه هاي دريايي (سال: 1397)

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## خلاصه مقاله:

Owing to casualties and extensive damage caused by tsunami, the recognition of tsunami propagation, ways to tackle it and reducing its run up height are subject of extensive studies. A number of methods such as coastal walls, armor segments, coastal forests, and breakwaters have been used in order to conquer tsunami-relateddamage and reduce its run up. The application of submerged breakwater is recently considered as one of the effective methods for the reduction of tsunami run up, theadvantage is that the near shore activities does not affect and the landscape beauty intact is preserved [1]. In this article the effect of submerged obstacles on the Tsunamirun-up is numerically and experimentally investigated Solitary waves are considered as the model for tsunami. OpenFOAM computational fluid dynamics (CFD) opensource software is adopted for numerical simulation of propagation and run-up of tsunami waves in different conditions, with and without submerged breakwater. Inorder to verify the numerical simulation .results, the experimental study is conducted in the hydraulic laboratory of the University of Isfahan

كلمات كليدى:

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/822067

