

عنوان مقاله:

NUMERICAL MODELING OF CYCLONE GONU WAVES CRASH ON RAMIN PORT BREAKWATERS

محل انتشار:

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

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خلاصه مقاله:

High waves are considered as an important coastal hazard which impact and overtop coastal structures and inundate coastal region during storm condition. To prevent the disastrous effect of the wave run-up and overtopping, many physical tests have been performed to derive empirical formulas and design curves to estimate wave run-up and overtopping over the coastal structures (i.e. De Waal and Van Der Meer [1]; Owen [2]). These empirical tools have been very useful in the design of coastal structures. However they are only based on the special condition in wave flumes with limited wave conditions. By developing numerical method, researchers started to simulate wave run-up and overtopping using numerical methods. Hubbard and Dodd presented a two dimensional numerical model of wave run-up and overtopping based in the 2D nonlinear shallow water (NLSW) and investigated the overtopping of a seawall by long-crested waves [3]. In this research, TELEMAT-3D has been hired to simulate and study the wave run-up and wave overtopping for high waves induced by so called Cyclone Gonu happened in 2007 in the Indian Ocean, over Ramin port breakwaters, located in Southeast of Iran (Fig. 1). The results then have been compared with the videos and photos taken during the cyclone in Ramin port

کلمات کلیدی:

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