

عنوان مقاله:

INVESTIGATING FIXED FLOATING BREAKWATER RESPONSE TO WAVES ACTION USING A SIMPLIFIED ANALYTICAL MODEL

محل انتشار:

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خلاصه مقاله:

The hydrodynamic behavior of fixed floating breakwater (FFBW) is studied in the present paper, using a simplified analytical model that was developed by Drimer et al. [4]. Firstly, comparison of transmission (T) and reflection (R) coefficients values between analytical solution [4] and existing experimental data [10 and 14] was made. The comparison showed good agreement for a wide range of conditions. In addition, comparison between the analytical model [4] and the analytical formula of transmission coefficient [7] was done. After the comparison between the analytical and experimental results, design charts were developed using the analytical model [4]. The charts described the variation of the coefficients (T and R) along a wide range of water depth (h) over wave length (L) ratio for different structure width over water depth (B/h) values for a particular draft (dr) over h ratio. The main goal was to show how these charts can be used in designing of fixed floating breakwater. This was achieved through using a solved example

کلمات کلیدی:

FFBW, Analytical model, Charts, Safety factor

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