

SHORE PROTECTION USING A FIXED FLOATING RECTANGULAR BREAKWATERS

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Abstract

Shore or marina protection using a fixed floating rectangular breakwaters was examined experimentally for low and moderate waves. Different parameters affecting the wave diffraction around the proposed structure were taken into considerations such as, the relative draft and width of the floating structure, wave characteristics and sea bed slope. The efficiency of the proposed breakwater model to control the wave energy was measured at different locations around the structure. It is concluded that; good efficiency of the proposed model is obtained when the relative draft increases. Also, when the breakwater width becomes one and half the water depth especially on a sloping beach of bed slope θ