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A Study Of Wave Reflection On The Port Of Oran

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In severe weather, excessive wave heights are undesirable and the wave motion is highly complicated and in its propagation the reflection depends upon the shape, dimensions, position of obstacles such islands, marine structures, ports and piers.A parametric study is carried out with the aim of studying the effect of structures on the propagation of waves; in particular the influence of the nature of the slope surface represented by the coefficient k which is the nature of the surface slope, and the geographical and bathymetric port protection, in particular the port of Oran in the Western region of Algeria. This present work shows that the port of Oran is protected to some extent against certain propagating waves of certain heights. The calculation is programmed in Visual Basic, and the model is applied to the jetty port of Oran in the western region of Algeria. The validation is made between this work and other previous findings. It has been noted that there is a good correlation in terms of trend between the two results. Given the values of the wave steepness, slopes over 35 ° are likely to produce a splash. This work was also carried out in order to suggest a good protection against a Tsunami wave. Other parameters, such as operating time and costs, are taken into account in the recommendation for the proposed rehabilitation, reinforcement and construction of jetties.