

عنوان مقاله:

NANOTECHNOLOGY APPLICATIONS IN BREAKWATER CONSTRUCTION- CASE STUDY

محل انتشار:

نخستین کنفرانس بین المللی بتن (سال: 1388)

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خلاصه مقاله:

Breakwater is a structure protecting a harbour or basin from waves, thus preventing these from exerting their destructive influence upon the area enclosed for shipping reception. Experiences proved that in most situations great care must be taken in breakwater design. Stone sizes of the material available must be great enough to resist the wave forces so that the mound is not flattened during storms. There may also be considerable settlement of the sea bed under the load of the structure. In certain cases, this may be increased by the addition of the stone intended to make the sink-age. Therefore, stability may have to be secured by replacing poor bottom material with better material before rock material for the jetty is dumped. We define in brief the nanotubes, their position and types which can help in understanding the molecular interaction of atoms of materials under considerations. This paper, as well introduces .newest results of different experiments on nano concrete samples used as armour layer of breakwater

کلمات کلیدی:

Breakwater; Nano concrete; Tetra pods; Strength

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