

عنوان مقاله:

Investigation of an Stiffened Air-Backed Plate Subjected To Underwater Explosion Loads

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خلاصه مقاله:

Marine structures shock trials play an essential role in evaluation of damage in marine structures like a ship or submarine. These trials are necessary in order to evaluate the vulnerability and survivability of the structures, they are very expensive, require extensive time and cost. Thus, recently computer modeling of the marine structure, surrounding fluid, and virtual shock environment by utilizing finite element software, is an alternative method to evaluate the structure shock response. This article first investigates the shock response of an air backed plate to underwater explosion numerically. Verification is done by compares the relevant results with experimental results obtained under similar conditions in the previous works. Then behaviour of an stiffened plate investigated under shock loads due to underwater explosion.

کلمات کلیدی:

marine structures, Shock response, underwater explosion, Stiffened plate

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