

عنوان مقاله:

EXPERIMENTAL STUDY OF PIPE DIAMETER EFFECT TO THE VORTEX INDUCED VIBRATION OF TWO-DEGREE-OF-FREEDOM PIPE DUE TO WAVES

محل انتشار:

دوازدهمین همایش بین المللی سواحل، بنادر و سازه های دریایی (سال: 1395)

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خلاصه مقاله:

When an object like a pipe is located in a flow or wave, the flow regime would be changed around it which leads to the increment of shear stress and turbulence intensity. As a result, in special conditions we will see flow separation and vortex shedding in lee-side of the pipe. These vortices impose the periodic forces on the cylinder which may lead the pipe to vibrate. These vibrations are named Vortex Induced Vibrations (VIVs) [1]. VIV's studies are mostly around Cross-Flow (CF) pipe vibrations (one-degree-offreedom pipes) and somewhat both In-Line (IL) and CF pipe vibrations (two-degree-of-freedom pipes), Fig. 1. Two-degree-of-freedom vortex-induced vibration of a pipe in waves has been less studied which it is investigated experimentally in this case and the pipe diameter effect is considered

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