Abstract

Floating structure is applied as floating wave breaker, floating airport and etc. Applications of these structures rise because of being environmental friendly and fast construction. To design floating structure first step is hydrodynamic analysis under wave effect. As the depth of structure is too smaller than the other dimensions, this structure behaves elastically. Hydroelastic analysis is used to obtain its deformation under wave action. Reduction of the hydroelastic responses may increase serviceability and safety. There are many ways to reduce the hydroelastic response of VLFS. This paper was considered the analysis and hydroelastic reduction of VLFS.

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