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.

References

Reducing Hydroelastic Response of Very Large Floating Structure: A Literature Review

Research and Development. Procedia Engineering, 14, 62-72. ?
- Wang, C. M., Pham, D. C., and Ang, K. K. (2007). Effectiveness and optimal design of gill cells in minimizing differential deflection in circular VLFS. Engineering structures, 29(8), 1845-1853. ?
system. Ocean engineering, 33(5), 610-634.?
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