



Dynamic Response of Marine Structures under Wave Action

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Message from the Guest Editors

The earth is experiencing climate change and as a result it is likely that the frequency and intensity of extreme waves will increase. This requires the design of new reliable and economically viable marine structures, as well as the assessment of the existing ones. Marine structures, in the broadest sense, are mainly designed to withstand wave action. However, common design approaches are based on a static assumption that might lead to a misleading estimation of the design stresses, especially when considering rigid structures. It is, indeed, of great importance to properly assess the dynamic response of these structures exposed to the breaking and non-breaking wave action. Based on the findings of two recent ongoing research projects, the UK based STORMLAMP and the Dutch DynaHicS, as well as the ongoing research activities on the hydro-RTHS (hydrodynamic real-time simulation) carried out in the framework of the US NHERI Program (Natural Hazards Engineering Research Infrastructure), we identified the importance of disseminating the most update scientific knowledge about this topic that fuses two fascinating engineering sectors, hydraulics and structural engineering.





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Message from the Editor-in-Chief

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