

Download Wind Loads On Offshore Structures

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Wind Loads on Offshore Structures . van Walree Maritime Research Institute Netherlands (MARIN), . P.O. Box 28, 6700 AA Wageningen, The Netherlands One of the important mean environmental loads on offshore structures are the wind loads. In high wind conditions the wind loads on the floater can be significant. In practice wind is not constant, but can vary both in velocity and direction. Wind spectra are often used to represent stationary wind conditions, while other conditions can be ... A review of the available methods for the calculation of wind loads on ships and offshore structures is presented. Based on the review, four methods were selected and implemented in order to carry ... Chapter 4 Loads on marine structures 4.1 General For performing reliability analyses of marine structures, certain specific load and strength data are necessary. Prior to estimating the loads acting on ships or marine structures, a statistical representation of the environment is necessary. This includes waves, wind, ice, seismic effects and currents. The last four items are more important for ...