



Stochastic Analysis of Offshore Steel Structures: An Analytical Appraisal (Springer Series in Reliability Engineering)

Halil Karadeniz

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Stochastic Analysis of Offshore Steel Structures provides a clear and detailed guide to advanced analysis methods of fixed offshore steel structures using 3D beam finite elements under random wave and earthquake loadings. Advanced and up-to-date research results are coupled with modern analysis methods and essential theoretical information to consider optimal solutions to structural issues.

As these methods require and use knowledge of different subject matters, a general introduction to the key areas is provided. This is followed by in-depth explanations supported by design examples, relevant calculations and supplementary material containing related computer programmers. By combining this theoretical and practical approach *Stochastic Analysis of Offshore Steel Structures* cover a range of key concepts in detail including:

The basic principles of standard 3D beam finite elements and special connections,

Wave loading - from hydrodynamics to the calculation of wave loading on structural members,

Stochastic response calculations with corresponding solution algorithms including earthquakes, and

Fatigue damage, reliability calculation and reliability based design optimization.

The broad and detailed coverage makes this a solid reference for research oriented studies and practical sophisticated design methods. Students, researchers, insuring bodies and practical designer offices can turn to *Stochastic Analysis of Offshore Steel Structures* to broaden their theoretical understanding and develop their practical designs and applications of 3D finite analysis in fixed offshore steel structures.

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