

Fatigue Handbook Offshore Steel Structures

Fatigue Handbook Steel in Marine Structures Verification of CSA Code for Fixed Offshore Steel Structures Design of Offshore Steel Structures, General (LRFD Method). Fatigue Design of Offshore Steel Structures Material Selection Considerations for Offshore Steel Structures Design Guidance for Offshore Steel Structures Exposed to Accidental Loads Stochastic Analysis of Offshore Steel Structures Offshore Structures Corrosion and Protection of Offshore Steel Structures Approaches to the Repair and Strengthening of Offshore Steel Structures Buckling Design for Offshore Steel Structures Toughness Requirements for Offshore Steel Structures Used in an Arctic Environment 1; The Avoidance of Fatigue Failures in Offshore Steel Structures; 2; Fixed Steel Offshore Structures - Requirements for Parent Steels and Welded Joints; 3; Design, Survey and Repair of Offshore Structures Some Key Aspects of Inspection and Repair of Offshore Steel Structures Fatigue and Corrosion Behaviour of Offshore Steel Structures Fatigue Design of Offshore Steel Structures Fatigue Strength Analysis of Offshore Steel Structures Structural Optimisation of Offshore Steel Structures Fatigue Investigation on Offshore Steel Structures Under Spectrum Loading A. Almar-Naess C. Noordhoek William Patrick Maddock Norske Veritas (Organization) John David Harrison Det Norske Veritas Halil Karadeniz Mohamed A. El-Reedy O. Thome Viapree Ian Christos Raptis R. J. Smith G.P. Smedley M. R. Inglis J. de Back Norske Veritas (Organization) Paul A Frieze H. Agerskov

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soon after oil and gas exploration and production began in the north sea in the 1960s it became apparent that the steel structure design developed for offshore activities in the gulf of mexico was not adequate when transferred to the rigorous north sea environment realizing the great need for a better understanding of the fatigue phenomenon concerned materials scientists at sintef and det norske veritas prepared a five

year programme for intensified research on fatigue of offshore steel structures it became the national five year programme for fatigue of offshore steel structures in 1981 this text comprises a study of fatigue in offshore steel structures it seeks to make results in the area available in a form that can be utilized and understood by those responsible for the different stages in engineering design fabrication and service of offshore structures

this volume contains the results of the third phase 1981 1987 of a research programme on the in service behaviour of welded marine structures under fatigue and corrosion fatigue loading the programme was undertaken in six eec countries denmark france germany italy the netherlands united kingdom in close association with similar work being undertaken in norway and canada in all more than 40 research laboratories have been involved in an overall collaboration aimed at generating information relevant to the performance of offshore steel structures and fostering a precise degree of common technical understanding that will encourage the increased use of structural steel fabrications for the exploitation of offshore hydrocarbon reserves throughout the world the programme has already produced tangible benefits for both the steel and oil industries through the contribution it has made to a better understanding of the behaviour of steel structures in marine environments as well as by providing the data necessary for the revision of codes of practice relating to the fabrication of these structures

this project evaluated the canadian standards association code for the design construction and installation of fixed offshore structures in its application to the design of an actual steel jacket structure the evaluation compared the results of a design based on the csa standards to british petroleum s gyda platform applying the design criteria and environmental conditions used in the original design and focusing on the jacket structure and the pile foundations only

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 programmes 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

with most of the easy gas and oil reserves discovered and prices rebounding companies are now drilling far offshore in extreme weather condition environments as deepwater wells are drilled to greater depths engineers and designers are confronted with new problems such as water depth weather conditions ocean

currents equipment reliability and well accessibility offshore structure design construction and maintenance covers all types of offshore structures and platforms employed worldwide the ultimate reference for selecting operating and maintaining offshore structures this book provides a road map for designing structures which will stand up even in the harshest environments the selection of the proper type of offshore structure is discussed from a technical and economic point of view the design procedure for the fixed offshore structure will be presented and how to review the design to reach the optimum solution nonlinear analysis push over analysis will be presented as a new technique to design and assess the existing structure pile design and tubular joint with the effect of fatigue loading will be presented also from a theoretical and a practical point of view with this book in hand engineers receive the most up to date methods for performing a structural life cycle analysis implement maintenance plans for topsides and jackets using non destructive testing under water inspection is discussed for hundreds of platforms in detail advanced repair methodology for scour marine growth and damaged or deteriorating members are discussed risk based under water inspection techniques are covered from a practical pint of view in addition the book will be supported by an online modeling and simulation program with will allow designers to save time and money by verifying assumptions online one stop guide to offshore structure design and analysis easy to understand methods for structural life cycle analysis expert advice for designing offshore platforms for all types of environments save time and money by verifying designs online

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