

# Spons Fabrication Norms For Offshore Structures

Corrosion Control for Offshore Structures Design Aids of Offshore Structures Under Special Environmental Loads including Fire Resistance Offshore Mechanics Risk Analysis for Offshore Structures and Equipment Underwater Inspection and Repair for Offshore Structures Spon's fabrication norms for offshore structures Essentials of Offshore Structures Offshore Structures Offshore Structures Background to Guidance on Foundations and Site Investigations for Offshore Structures Offshore Structures Assessment of Materials in Ageing Offshore Structures Offshore Structures Integrity of Offshore Structures Petroleum and Natural Gas Industries. General Requirements for Offshore Structures Petroleum and Natural Gas Industries, Specific Requirements for Offshore Structures Ageing and Life Extension of Offshore Structures Foundation Design for Offshore Structures Introduction to Offshore Structures Dynamics of Floating Offshore Structures Ramesh Singh Srinivasan Chandrasekaran Madjid Karimirad Commission of the European Communities John V. Sharp D.V. Reddy D. V. Reddy Mary A. Vance R. M. Semple Günther Clauss John Victor Sharp Mohamed A. El-Reedy D. Faulkner British Standards Institute Staff Gerhard Ersdal Alfredo Urzua William J. Graff Subrata K Chakrabarti

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a variable game changer for those companies operating in hostile corrosive marine environments corrosion control for offshore structures provides critical corrosion control tips and techniques that will prolong structural life while saving millions in cost in this book ramesh singh explains the abcs of prolonging structural life of platforms and

pipelines while reducing cost and decreasing the risk of failure corrosion control for offshore structures places major emphasis on the popular use of cathodic protection cp combined with high efficiency coating to prevent subsea corrosion this reference begins with the fundamental science of corrosion and structures and then moves on to cover more advanced topics such as cathodic protection coating as corrosion prevention using mill applied coatings field applications and the advantages and limitations of some common coating systems in addition the author provides expert insight on a number of nace and dnv standards and recommended practices as well as iso and standard and test methods packed with tables charts and case studies corrosion control for offshore structures is a valuable guide to offshore corrosion control both in terms of its theory and application prolong the structural life of your offshore platforms and pipelines understand critical topics such as cathodic protection and coating as corrosion prevention with mill applied coatings gain expert insight on a number of nace and dnv standards and recommended practices as well as iso and standard test methods

this book provides detailed analysis methods and design guidelines for fire resistance a vital consideration for offshore processing and production platforms recent advancements in the selection of various geometric structural forms for deep water oil exploration and production require a detailed understanding of the design of offshore structures under special loads focusing on a relatively new aspect of offshore engineering the book offers essential teaching material illustrating and explaining the concepts discussed through many tutorials it creates a basis for designing new courses for students of ocean engineering and naval architecture civil engineering and applied mechanics at both undergraduate and graduate levels as such its content can be used for self study or as a text in structured courses and professional development programs

covers theoretical concepts in offshore mechanics with consideration to new applications including offshore wind farms ocean energy devices aquaculture floating bridges and submerged tunnels this comprehensive book covers important aspects of the required analysis and design of offshore structures and systems and the fundamental background material for offshore engineering whereas most of the books currently available in the field use traditional oil gas and ship industry examples in order to explain the fundamentals in offshore mechanics this book uses more recent applications including recent fixed bottom and floating offshore platforms ocean energy structures and systems such as wind turbines wave energy converters tidal turbines and hybrid marine platforms offshore mechanics covers traditional and more recent methodologies used in offshore structure modelling including sph and hydroelasticity models it also examines numerical techniques including computational fluid dynamics and finite element method additionally the book features easy to understand exercises and examples provides a comprehensive treatment for the case of recent applications in offshore mechanics for researchers and engineers presents the subject of computational fluid dynamics cfd and finite element methods fem along with the high fidelity

numerical analysis of recent applications in offshore mechanics offers insight into the philosophy and power of numerical simulations and an understanding of the mathematical nature of the fluid and structural dynamics with focus on offshore mechanic applications offshore mechanics structural and fluid dynamics for recent applications is an important book for graduate and senior undergraduate students in offshore engineering and for offshore engineers and researchers in the offshore industry

by its very nature action involves risk zero risk is zero action man has always had a sense of action hence risk and consequently of the precautions required to ensure his safety as with all techniques development was first pursued in an empirical even rudimentary fashion and so it has continued until very recently naturally these empirical safety procedures could not survive the dual explosion of major technological and social conscience the shift towards rational analytical procedures for risk assessment and safety assurance naturally began in aeronautical projects followed by the nuclear and aerospace fields in recent years these procedures have also been applied to other types of activity the building of chemical complexes european gas storage facilities etc more recently still we have seen direct and explicit assessment of the risk associated with petroleum operations particularly offshore and high risk transportation industrial waste liquefied gas with regard to navigation in the vicinity of sensitive installations located near the coast risk implies the concept of probability if there were some means of ensuring absolute avoidance of a given risk then it would clearly no longer exist the modern perception of risk may be regarded as a shift from a deterministic philosophy to a probabilistic view of human enterprise see j m planeix le risque une notion subjective differemment perque risk a differently perceived subjective concept iabse paper on collisions between shipping platforms and bridges copenhagen june 1983 we might also note the advent of statistical philosophy in modern studies in the economic field for example mensch stalemate in technology the increase in the degree of risk associated with exploration for hydrocarbons at ever greater depths offshore and under severe environmental conditions has been duly perceived by operators who have accentuated the trend towards the use of analytical procedures in safety assessment risk analysis may be applied to the whole of a field or platform or to a particular isolated system within a structure structures are increasingly being analysed by modern probabilistic procedures providing an explicit assessment of structural safety where a process of risk analysis is applied to a given unit the probabilistic study of structural safety forms part of the general analysis it is important to note parallel to the development and use of modern procedures for structural analysis that european industry has for the past six years been pursuing a vast programme of investigation into fatigue and cracking in steels used for offshore platforms this programme being supported by the ecsc this extremely important point will be examined in greater detail in our conclusions and will be covered by certain recommendations to take maximum advantage of the extremely interesting results so far obtained from this programme it is essential first for structures to be analysed according to modern procedures and then for this analysis to be introduced into a global study of a given unit monitoring the integrity of structures for example requires the use of inspection resources forming part of the general organization of a field the results thus obtained must be translated

into a plan of action in the event that serious damage is revealed procedures for studying systems by the fault tree method enable the safety cost balance to be assessed and are consequently used as an aid to decision making they are the only procedures allowing an explicit study of this balance of manifest importance for the present and future a safety cost balance is the essential element in decision making for insurance companies though in most cases today this balance is the result of experience in the report following experts have been questioned on the application of risk analysis in the nuclear aerospace and offshore fields the general ideas expressed by these experts are contained in the body of the report with technical details in the appendices there is of course a certain lack of uniformity in the contributions made by these experts and to some extent a degree of overlap we nevertheless felt that to eliminate this lack of uniformity and overlap would be prejudicial to the report we briefly summarize below the opinions of the experts on the degree of penetration of risk analysis methods in the industrial sectors examined in this report

underwater inspection and repair for offshore structures benefit from a much needed up to date handbook on underwater inspection and repair processes and technologies underwater inspection and repair for offshore structures fills a gap in the literature to provide an overview of the inspection and repair processes for both steel and concrete offshore structures authors and noted experts on the topic john v sharp and gerhard esdal guide readers through the reasons why inspection and repair are performed and how both are linked to the management of structural integrity statutory requirements and various types of damage the book addresses critical topics including the execution and planning of inspection and repair the tools and methods used and their deployment underwater the authors put particular focus on steel and concrete offshore oil and gas installations but the content is also applicable to the substructures of offshore wind turbines underwater inspection and repair for offshore structures is complementary to the authors book ageing and life extension of offshore structures also from wiley this important book covers current inspection and monitoring techniques to evaluate existing structures includes coverage of robotic roV inspection and repair methods provides an overview of repair and maintenance techniques applicable to the splash zone and underwater operations written for engineers designers and safety auditors working with offshore structures underwater inspection and repair for offshore structures is a comprehensive resource for understanding how to effectively inspect and repair these vulnerable structures

essentials of offshore structures framed and gravity platforms examines the engineering ideas and offshore drilling platforms for exploration and production this book offers a clear and acceptable demonstration of both the theory and application of the relevant procedures of structural fluid and geotechnical mechanics to offshore structures it makes available a multitude of solved problems and sample problems to solve which give readers a strong understanding of the analysis and design of steel framed and base supported concrete gravity offshore structures the book highlights sensible engineering applications for offshore structural design research and development it can also be useful to those working in the design industry the user will have a detailed overview of the various structures used in the offshore environment and the preliminary

costing factors that will influence their choice for the site analytical principles emphasized in the book will help the user to clearly comprehend the various issues that need to be taken into account in the analysis and design of an offshore structure using the api code the book includes extensive worked out problems and sample problems for use by the students and instructors with a solution manual the seabed pile gravity foundation analyses and design are clearly outlined with their embedment characteristics and problems worked out a global description of environmental forces has been given that includes those due to wave wind current tides earthquakes ice floe sheet action and limit ice load on arctic structures the book outlines the various factors that influence the material choice for offshore structures including fatigue and corrosion of the platforms in the ocean environment separate chapters detail the factors that influence the pile embedment and concrete gravity foundation characteristics material choice including fatigue and corrosion estimation of ocean environmental forces that will be exerted on the offshore structures and the analysis fundamentals that the reader needs to possess the last two chapters give detailed insights into the analysis and design of framed and concrete gravity platform offshore structures using api code procedures overall this book is a comprehensive presentation of the analysis and design of steel and concrete offshore structures

background to guidance on foundations and site investigations for offshore structures

this updated translation from the original german edition provides general background information on oceanology and ocean engineering is given along with descriptions of drilling techniques offshore structures and hydrocarbon production at sea the main part of the book is concerned with the hydrostatic and hydrodynamic analysis of marine structures followed by an evaluation of marine structure reliability environmental conditions affecting marine structures wave statistics and the application of reliability theory to code development are also discussed students and practising engineers who have an interest in the analysis of marine structures will find this book an invaluable reference

offshore structures design construction and maintenance second edition covers all types of offshore structures and platforms employed worldwide as the ultimate reference for selecting operating and maintaining offshore structures this book provides a roadmap for designing structures which will stand up even in the harshest environments subsea pipeline design and installation is also covered in this edition as is the selection of the proper type of offshore structure the design procedure for the fixed offshore structure nonlinear analysis push over as a new technique to design and assess the existing structure and more with this book in hand engineers will have the most up to date methods for performing a structural lifecycle analysis implementing maintenance plans for topsides and jackets and using non destructive testing provides a one stop guide to offshore structure design and analysis presents easy to understand methods for structural lifecycle analysis contains expert advice for designing offshore platforms for all types of environments

papers presented at the fourth international symposium on integrity of offshore structures 2 3 july 1990 kelvin conference centre university of glasgow scotland organized by the department of naval architecture and ocean engineering and mechanical engineering

petroleum petroleum extraction natural gas natural gas extraction maritime structures offshore construction works structural design fitness for purpose

a comprehensive overview of managing and assessing safety and functionality of ageing offshore structures and pipelines a significant proportion estimated at over 50 of the worldwide infrastructure of offshore structures and pipelines is in a life extension phase and is vulnerable to ageing processes this book captures the central elements of the management of ageing offshore structures and pipelines in the life extension phase the book gives an overview of the relevant ageing processes and hazards how ageing processes are managed through the life cycle including an overview of structural integrity management how an engineer should go about assessing a structure that is to be operated beyond its original design life and how ageing can be mitigated for safe and effective continued operation key features provides an understanding of ageing processes and how these can be mitigated applies engineering methods to ensure that existing structures can be operated longer rather than decommissioned unduly prematurely helps engineers performing these tasks in both evaluating the existing structures and maintaining ageing structures in a safe manner the book gives an updated summary of current practice and research on the topic of the management of ageing structures and pipelines in the life extension phase but also meets the needs of structural engineering students and practicing offshore and structural engineers in oil gas and engineering companies in addition it should be of value to regulators of the offshore industry

this book will provide a complete coverage on the dynamics of floating offshore structures topics like random waves wind and current etc will be developed from the fundamental principles and their applications to offshore structures will be discussed the design aspect of the offshore structure both for short term and long term response and structural fatigue are important elements of the dynamic response and will be further elaborated upon in the text dynamcs of floating offshore structures is designed to be used both as a textbook for graduate courses and as a reference work in offshore and ocean engineering its uniqueness lies in its treatment of theoretical and practical aspects of offshore structure dynamics and will stand out from the other available publications on this general subject

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