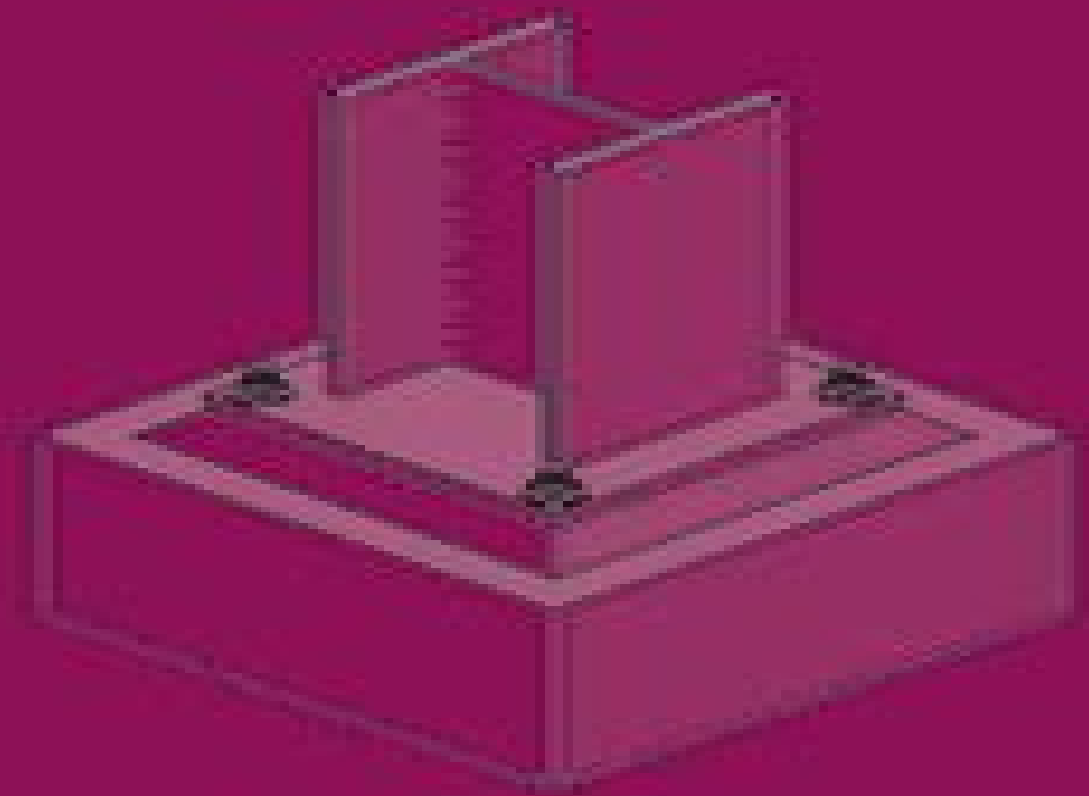




Design Guide 11

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Third Edition



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Yong Bai, Wei-Liang Jin



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Design Guides for Offsho... P. Le Tirant, Design Aids for Offshore Topside Platforms Under Special Loads Srinivasan Chandrasekaran, Arvind Kumar Jain, Nasir Shafiq, M. Mubarak A. Wahab, 2021-11-25 Offshore platforms face many risks including a hostile ocean environment extreme temperatures overpressure loads fire risks and hydrocarbon explosions all of which pose unique challenges in designing their topside platforms The topside design also involves the selection of appropriate materials to reduce fire risk without compromising the functional requirements These platforms serve valuable utility production and processing purposes and can also provide living quarters for personnel Concepts such as basic design special design materials selection and risk hazards are explained in the authors straightforward classroom style and are based on their rich experience in both academia and industry Features Includes practical examples which are solved using international codes to offer a better understanding of the subjects presented Addresses safety and risk of offshore platforms and considers numerous topside accident scenarios Discusses the structural and mechanical properties of various materials such as steel and newer functionally graded materials FGMs Design Aids for Offshore Topside Platforms Under Special Loads serves as a design manual for multi disciplinary engineering graduates and practicing professionals working in civil mechanical offshore naval and petroleum engineering fields In addition the book will serve as reference manual for practicing design engineers and risk assessors **Calibration of Deterministic Parameters: Reassessment of Offshore**

Platforms in the Arabian Gulf Hassan Zaghloul, 2011-04-18 The Arabian Gulf oil and gas production reserves have made it one of the world s strategic producers since the early 1960s with many of the existing platforms stretched beyond their original design life Advances in drilling technology and reservoir assessments have extended the requirement for the service life of those existing platforms even further Extension of the life span of an existing platform requires satisfactory reassessment of its various structural components including piled foundations The American Petroleum Institute Recommended Practice 2A API RP2A is commonly used in the Arabian Gulf for reassessment of existing platforms The API guidelines have been developed for conditions in the Gulf of Mexico the waters off Alaska and the Pacific and Atlantic seaboard of the USA However the Arabian Gulf conditions are fundamentally different to those encountered in US waters Hence there is a need to develop guidelines for reassessment of existing offshore structures to account for the specific conditions of the Arabian Gulf This thesis performs statistical analyses on databases collected during this research from existing platforms to calibrate relevant load and resistance factors for the required guidelines The developed guidelines are based on established approaches used in developing international codes and standards such as API RP2A LRFD The outcome of this research revolves around the following three main issues 1 Calibration of resistance factors for axial capacity of piles driven in the carbonate soils 2 Development of open area live loads OALL on offshore platforms 3 Effect of extreme storm conditions on the reliability of existing platforms in the Arabian Gulf The outcomes of this research are expected to have a

profound influence on reassessment of existing platforms in the Arabian Gulf Seismic Guidelines for Ports Stuart D. Werner, 1998-01-01 Seismic Guidelines for Ports was prepared by the Ports Committee of the Technical Council on Lifeline Earthquake Engineering of the American Society of Civil Engineers a committee of experienced professionals for port authorities government consulting engineering firms and the academic community This volume includes lessons of experience from past earthquakes a summary of current state of knowledge and practice of risk reduction planning through design analysis and material components and guidelines for response and recovery at ports General Design Standards United States. Bureau of Reclamation, 1992 *Handbook of Offshore Engineering (2-volume set)* Subrata Chakrabarti, 2005-06-21 Each chapter is written by one or more invited world renowned experts Information provided in handy reference tables and design charts Numerous examples demonstrate how the theory outlined in the book is applied in the design of structures Tremendous strides have been made in the last decades in the advancement of offshore exploration and production of minerals This book fills the need for a practical reference work for the state of the art in offshore engineering All the basic background material and its application in offshore engineering is covered Particular emphasis is placed in the application of the theory to practical problems It includes the practical aspects of the offshore structures with handy design guides simple description of the various components of the offshore engineering and their functions The primary purpose of the book is to provide the important practical aspects of offshore engineering without going into the nitty gritty of the actual detailed design Provides all the important practical aspects of ocean engineering without going into the nitty gritty of actual design details Simple to use with handy design guides references tables and charts Numerous examples demonstrate how theory is applied in the design of structures **Fixed Offshore Platforms: Structural Design for Fire Resistance** Mavis Sika Okyere, 2018-06-19 This book examines the fire resistant design of fixed offshore platforms It describes the required loading load combinations strength and stability checks for structural elements It also explains the design of tubular joints fatigue analysis dynamic analysis and impact analysis Fire resistance fire explosion and blast effect analysis fire protection materials and safety **Guide to Stability Design Criteria for Metal Structures** Theodore V. Galambos, 1998-06-15 This book provides simplified and refined procedures applicable to design and to accessing design limitations and offers guidance to design specifications codes and standards currently applied to the stability of metal structures **Marine Structural Design** Yong Bai, Wei-Liang Jin, 2015-09-18 Marine Structural Design Second Edition is a wide ranging practical guide to marine structural analysis and design describing in detail the application of modern structural engineering principles to marine and offshore structures Organized in five parts the book covers basic structural design principles strength fatigue and fracture and reliability and risk assessment providing all the knowledge needed for limit state design and re assessment of existing structures Updates to this edition include new chapters on structural health monitoring and risk based decision making arctic marine structural development and the addition of new LNG ship topics

including composite materials and structures uncertainty analysis and green ship concepts Provides the structural design principles background theory and know how needed for marine and offshore structural design by analysis Covers strength fatigue and fracture reliability and risk assessment together in one resource emphasizing practical considerations and applications Updates to this edition include new chapters on structural health monitoring and risk based decision making and new content on arctic marine structural design **Planning and Design of Fixed Offshore Platforms** Bramlette
McClelland, Michael D. Reifel, 1986

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