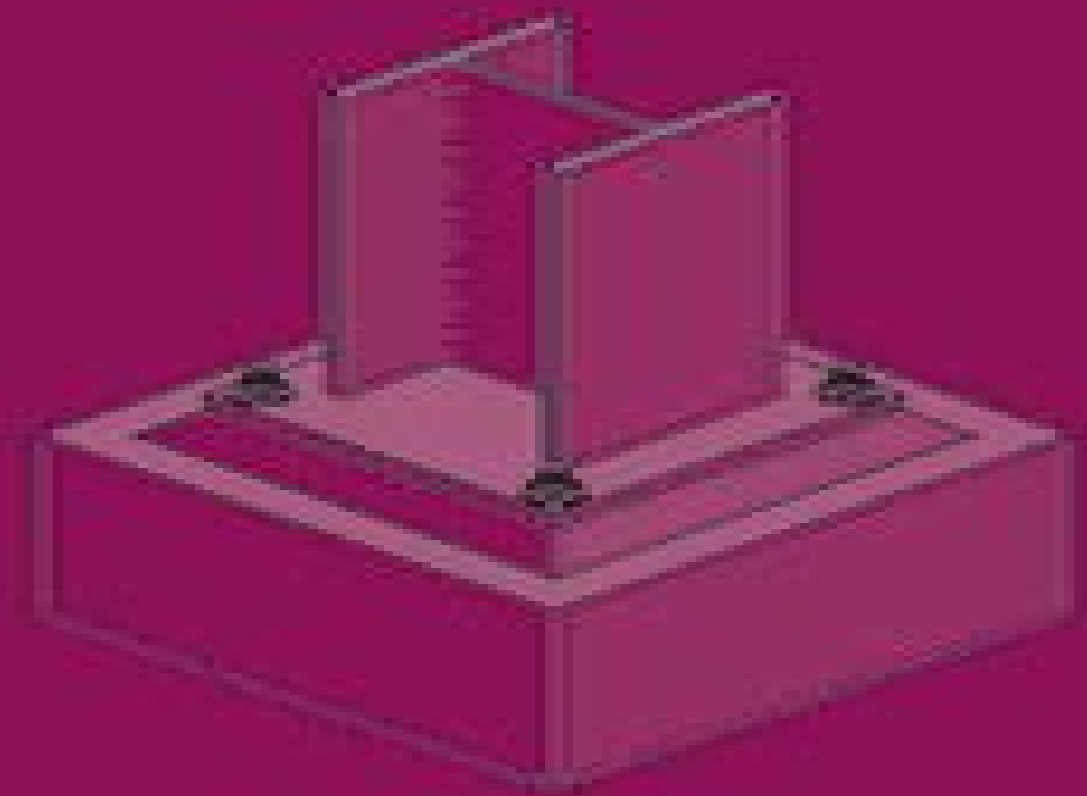




Design Guide 11

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Design Guides for Offshore... P. Le Tirant, **Calibration of Deterministic Parameters: Reassessment of Offshore Platforms in the Arabian Gulf** Hassan Zaghoul, 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 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.

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 **General Design Standards** United States. Bureau of Reclamation,1992 **Subsea Pipeline Systems** Alexander Arnfinn Olsen,2024-10-21 This book is a comprehensive guide to the classification design construction and maintenance of subsea pipeline systems It provides an in depth exploration of offshore pipeline architecture serviceability and the rigorous standards required for certification and verification The chapters cover critical topics such as risk evaluations for novel features survey and inspection regimes materials and welding specifications geotechnical and environmental conditions flow assurance analysis strength and stability criteria and special considerations for pipe in pipe designs Readers will also discover detailed discussions on pipeline rectification intervention design routing installation procedures testing protocols and maintenance strategies This book is an indispensable resource for anyone involved in the offshore oil and gas industry Engineers architects and safety management professionals will find this book particularly valuable It serves as both a reference for academics and students in industrial design and engineering fields and as a textbook for marine architecture courses Whether you are overseeing the design of new pipelines or ensuring the integrity of existing ones this guide offers the latest research and practical insights to help you navigate the complexities of subsea pipeline systems Planning and Design of Fixed Offshore Platforms Bramlette McClelland,Michael D. Reifel,1986 **Mechanics and Design of Tubular Structures** Karoly Jarmai,Jozsef Farkas,2014-05-04 This book helps designers and manufacturers to select and develop the most suitable and competitive steel structures which are safe fit for production and economic An optimum design system is used to find the best characteristics of structural models which guarantee the fulfilment of design and fabrication requirements and minimize the cost function Realistic numerical models are used as main components of industrial steel structures Chapter 1 contains some experiences with the optimum design of steel structures Chapter 2 treats some newer mathematical optimization methods Chapter 3 gives formulae for fabrication times and costs Chapters 4 deals with beams and columns Summarizes the Eurocode rules for design Chapter 5 deals with the design of tubular trusses Chapter 6 gives the design of frame structures and fire resistant design rules for a frame In Chapters 7 some minimum cost design problems of stiffened and cellular plates and shells are worked out for cases of different stiffenings and loads Chapter 8 gives a cost comparison of cylindrical and conical shells The book contains a large collection of literatures and a subject list and a name index **Geotechnical Reliability of Offshore Gravity Platforms** Gregory B. Baecher,1980 **Index of Specifications and Standards** ,

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