

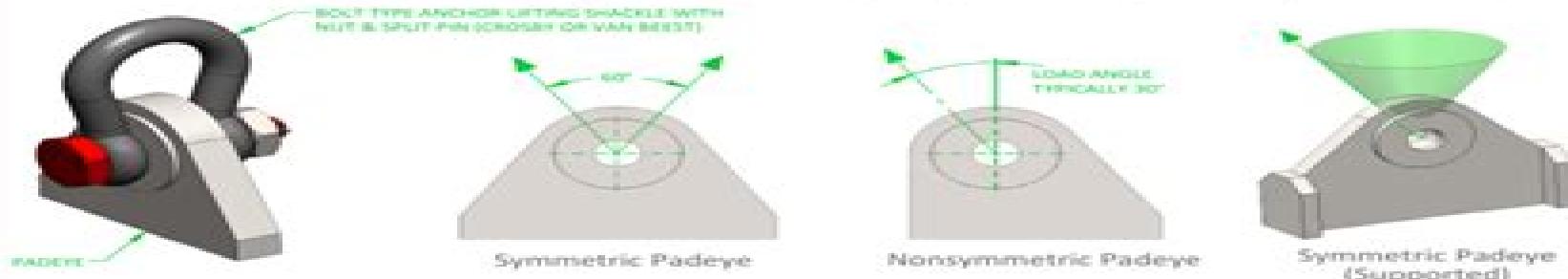
The following guide gives an overview of padeye design based on DNV design rules and common industry practice.

For any manufactured equipment, the geometry of the padeye must match the size of shackle to be used to ensure a rated connection between the equipment and the lifting set.

DNV states two key sizing rules which are of importance:

- The diameter of the holes in the padeye shall match the shackle used, clearance between shackle pin and padeye hole shall not exceed 6% of the shackle pin diameter.
- The thickness of the padeye at the hole shall not be less than 75% of the inside width of the joining shackle

The correct design of padeye should be selected based on the particular load application. For straight lifting angles a symmetric padeye design should be used, for a multi-point lift as in a offshore container or frame then a nonsymmetric design can be used. If required plated supports can be added to the symmetric design to increase the lateral stiffness of the padeye, useful when the padeye will be subjected to dynamic load angles.



For a multi-point lift it is essential that the padeyes point directly to the lift point centre to prevent lateral bending moments on the padeyes. DNV suggest a tolerances of 2.5 degrees as an allowable misalignment.

For padeyes rated above 2000kg capacity cheek plates must be fitted to reduce the play in the shackle-padeye connection. These must be fitted as additional plates welded onto the padeye profile and not a single boss as shown below.



Padeye Materials

For equipment used in a marine environment, all padeye materials are to be S335J2 (BS EN 10025) supplied with 3.1 material inspection certificates to BS EN 10204.

Padeye Welding

All padeyes must be welded to the primary structure by use of full penetration welds. It is good practice to extend the base of the padeye to pass it completely through the structural member which it is connected to. If welding directly onto horizontal plate then the plate must be specified as EM2 grade to prevent delamination of the plate under tensile load.

When sizing the correct padeye for your application consider the following:

- Maximum foreseen gross load
- Load test requirements
- Dynamic amplification factor (DAF)
- Drag load on equipment when lifting through water
- Potential captured water weight when lifting equipment out of water

This document has been created as a guide and should not be used as a substitute to correct design calculations. All lifting frames including padeye design should be checked by calculation and ideally independently checked and approved prior to manufacturing. Post manufacture load testing must be performed prior to equipment use.

Padeye Design Guide

Braja M. Das, Sanjay K. Shukla

Padeye Design Guide:

Underwater Cutting and Welding Manual United States. Navy Department. Bureau of Ships, 1954 **Guidance on the Classification of Offshore Containers** Alexander Arnfinn Olsen, 2024-10-09 This guide provides guidance for manufacturing facilities to build offshore containers. It also serves to assist Class Engineers and Surveyors in certifying offshore containers around the globe. It provides Marine Surveyors and Offshore Industry Professionals with responsibility over offshore containers with a brief and concise summary of the main classification rules and regulations relating to the design, construction, inspection, and testing surveyance and use of offshore containers.

Subsea Production Systems Engineering Manual, 1997 Marine Structural Design Calculations Mohamed A. El-Reedy, 2014-09-30 The perfect guide for veteran structural engineers or for engineers just entering the field of offshore design and construction. Marine Structural Design Calculations offers structural and geotechnical engineers a multitude of worked out marine structural construction and design calculations. Each calculation is discussed in a concise, easy to understand manner that provides an authoritative guide for selecting the right formula and solving even the most difficult design calculation. Calculation methods for all areas of marine structural design and construction are presented and practical solutions are provided. Theories, principles, and practices are summarized. The concentration focuses on formula selection and problem solving. A quick look up guide. Marine Structural Design Calculations includes both fps and SI units and is divided into categories such as Project Management for Marine Structures, Marine Structures, Loads and Strength, Marine Structure, Platform Design, and Geotechnical Data and Pile Design. The calculations are based on industry code and standards like American Society of Civil Engineers and American Society of Mechanical Engineers, as well as institutions like the American Petroleum Institute and the US Coast Guard. Case studies and worked examples are included throughout the book. Calculations are based on industry code and standards such as American Society of Civil Engineers and American Society of Mechanical Engineers. Complete chapter on modeling using SACS software and PDMS software. Includes over 300 marine structural construction and design calculations. Worked out examples and case studies are provided throughout the book. Includes a number of checklists, design schematics, and data tables.

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.

Troubleshooting Finite-Element Modeling with Abaqus Raphael Jean Boulbes, 2019-09-06 This book gives Abaqus users who make use of finite element models in academic or practitioner-based research the in-depth program knowledge that allows them to debug a structural analysis model. The book provides many methods and guidelines for different analysis types and modes that will help readers to solve problems that can arise with Abaqus if a structural model fails to converge to

a solution The use of Abaqus affords a general checklist approach to debugging analysis models which can also be applied to structural analysis The author uses step by step methods and detailed explanations of special features in order to identify the solutions to a variety of problems with finite element models The book promotes a diagnostic mode of thinking concerning error messages better material definition and the writing of user material subroutines work with the Abaqus mesher and best practice in doing so the writing of user element subroutines and contact features with convergence issues and consideration of hardware and software issues and a Windows HPC cluster solution The methods and information provided facilitate job diagnostics and help to obtain converged solutions for finite element models regarding structural component assemblies in static or dynamic analysis The troubleshooting advice ensures that these solutions are both high quality and cost effective according to practical experience The book offers an in depth guide for students learning about Abaqus as each problem and solution are complemented by examples and straightforward explanations It is also useful for academics and structural engineers wishing to debug Abaqus models on the basis of error and warning messages that arise during finite element modelling processing

Earth Anchors Braja M. Das, Sanjay K. Shukla, 2013-05-22 Anchors are primarily used in the construction of foundations of earth supported and earth retaining structures The fundamental reason for using earth anchors in construction is to transmit the outwardly directed load to the soil at a greater depth and or farther away from the structure Although earth anchors have been used in practice for several hundred years proper theoretical developments for purposes of modern engineering designs have taken place only during the past 40 to 45 years This book summarizes most theoretical and experimental works directed toward the development of proper relationships for ultimate and allowable holding capacity of earth anchors J Ross Publishing offers a supplemental download A customizable PowerPoint instructional slide presentation prepared by the authors that complements the material covered in the book chapter by chapter

[The Big Book of Boat Canvas: A Complete Guide to Fabric Work on Boats](#) Karen Lipe, 1991-03-08 The Big Book of Boat Canvas is a thorough revision and updating of Karen Lipe's two popular earlier books Boat Canvas Cover to Cover and More Boat Canvas combined with a whole new section on below decks sewing projects In this latest volume Lipe ranges well beyond the boundaries of traditional canvas work to create a comprehensive guide to fabric work on board You'll find dozens of traditional canvas projects sail covers awnings duffel bags dodgers and Biminis wind chutes winter covers all with clear step by step instructions generously illustrated You'll also find dozens of not so traditional fabric projects to add comfort and a touch of elegance to your below decks spaces custom interior cushions fitted sheets and daycovers privacy curtains lee cloths even a tablecloth to fit your varnished table Lipe offers a veritable minicourse in interior yacht decoration dozens of useful sewing tips a careful detailing of materials and tools needed for each project and an extensive discussion of modern fabrics appropriate for exterior and interior use In short this handy book covers everything you need to know to sew comfort utility and style into your boat A treasure of functional and fanciful projects you can sew yourself Multihulls You'll find this book of

the utmost practical help The Ensign It passed what is for me the acid test of a how to book The Big Book of Boat Canvas made me want to get at some long neglected projects and even to try some that I never thought I could manage SAIL *The North Sea Field Development Guide* ,1992 *Proceedings - Offshore Technology Conference* ,1992 *Construction of Marine and Offshore Structures* Ben C. Gerwick, Jr,2007-03-05 For two decades Ben Gerwick's ability to capture the current state of practice and present it in a straightforward easily digestible manner has made Construction of Marine and Offshore Structures the reference of choice for modern civil and maritime construction engineers The third edition of this perennial bestseller continues to be the most modern and authoritative guide in the field Based on the author's lifetime of experience the book also incorporates relevant published information from many sources Updated and expanded to reflect new technologies methods and materials the book includes new information on topics such as liquefaction of loose sediments scour and erosion archaeological concerns high performance steel ultra high performance concrete steel H piles and damage from sabotage and terrorism It features coverage of LNG terminals and offshore wind and wave energy structures Clearly concisely and accessibly this book steers you away from the pitfalls and toward the successful implementation of principles that can bring your marine and offshore projects to life *Aquatic Sciences and Fisheries Abstracts* ,1988 **Oceanic Abstracts** ,1988 **Western Industry and Western Industrial Guide** ,1961 Dredge Mooring Study, Recommended Design ,1992 **Design and Development for Economic Hydrocarbon Production** ,1994 **The Naval Institute Guide to Combat Fleets of the World, 2005-2006** Eric Wertheim,2005 Internationally acknowledged as the best one volume reference to the world's naval and paranaval forces this popular Naval Institute guide is both comprehensive and affordable Marine and Offshore Engineering T. V. Ramakrishnan,2007 The Present Book Marine And Offshore Engineering Is Written To Serve As A Guide And Reference For Practicing Engineers Both Designers And Contractors The Book Presents Current Development In A Variety Of Areas That Impact Offshore And Marine Engineering It Provides Valuable Insights Into The Following Chapters Chapter 1 Introduction Chapter 2 The Marine Working Environment Chapter 3 The Offshore And Sea Environmental Problems Chapter 4 The Seafood Structures Chapter 5 Moorings And Anchors Towing And Diving Chapter 6 The Offshore Electrical Power Chapter 7 The Offshore Piling Chapter 8 Breakwater Structures And Offshore Terminals Chapter 9 The Removal Of Offshore Structures And Construction Of Offshore Platforms Chapter 10 The Technique Of Concreting And Grouting Chapter 11 The Seafloor Of The Ocean And The Nature Of Marine Soil Chapter 12 The Structural Components Of The Offshore Platform Chapter 13 The Nature Of Deep Sea Construction This Book Is Very Useful Not Only For Marine Engineering Students But Also For Research Scholars And Teachers *SPE Drilling Engineering* ,1987 Cargo and Portable Tank Inspection Guide ,1985

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