

DESIGN OF OFFSHORE CONCRETE STRUCTURES

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Abstract

Contractors and investors have lately shown a renewed interest in concept development of reinforced concrete structures in the marine environment. Examples of such concepts are: fixed gravity platforms in arctic areas, terminals for LNG/LPG offshore, offshore harbours general, foundations for windmills offshore, deep caisson type bridge foundations and floating foundations for harbours, warehouses, car parks etc in major cities around the world.

Based on the renewed interest in the use of concrete for structures in the marine environment also in new types of concepts, DNV is issuing an Offshore Standard for Offshore Concrete Structures. The aim of the standard is general and makes an attempt to cover special marine considerations in the design and construction of mostly all variants of marine concrete structures, i.e. fixed oil producing installations, floating oil producing installations, LNG/LPG terminals, Offshore harbours, foundations for large bridges, windmills founded offshore etc.

The DNV Offshore standard for offshore Concrete Structures is based on the earlier Rules for Design of Concrete in the marine environment, i.e. the 1974 rules, the 1977 rules and the 1993 FOf Rules. The Offshore standard is further founded on the experience gained with the used of these standards and the durability of existing platforms built in the period after the installation of the first concrete platform at Ekofisk in 1973.

Keywords: concrete structures, design standard, offshore, LNG Terminals

1. Introduction

Some offshore concrete structures are large and complex in their geometric shape. These structures are to-day designed using the best available techniques [1] to [16]. This includes predictions of the force resultants in the structure using FE analysis with up to 1.5 million degrees of freedom, code checking of the FE results using special dedicated post-processing software, local capacity evaluations in areas where the linear FE analysis is known to be inaccurate. Special analyses are carried out for predictions of response from earthquake, wave induced dynamic actions, foundation design and geometric non-linear action.

DNV developed in 1974 its first Offshore Rules covering both steel and concrete structures. This Rule was developed in line with the Rules issued by DNV for classification of ships and the purpose of the Rules was to ensure a common safety level for structures designed and constructed where DNV was involved in the role as 3rd Party verification. The DNV Rules formed early the standard for the design of offshore concrete structures in the North Sea, both in British and in Norwegian waters. The latest issue of DNV FOf Rules [19] was issued in 1995.

DNV issued in 1979 "Tentative Rules for the Construction and Classification of Floating Facilities for Hydrocarbon Processing and Storage". This tentative rules covered classification of LNG terminals. In 2002 DNV issued the Offshore Service Specification DNV-OSS-102 [20] "Rules for the Classification of Floating Production and Storage Units", in 2001 DNV-OSS-103 [21] "Rules for

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Construction Technology For Tall Buildings (4th Edition) Yit Lin Michael Chew, 2012-06-04 This book introduces the latest construction practices and processes for tall buildings from foundation to roof. It attempts to acquaint readers with the methods, materials, equipment, and systems used for the construction of tall buildings. The text progresses through the stages of site investigation, excavation and foundations, basement construction, structural systems for the superstructure, site and material handling, wall and floor construction, cladding, and roof construction. The construction sequence, merits, and limitations of the various proprietary systems commonly used in these respective stages are discussed. This fourth edition also includes several new topics not covered in the previous edition. The target readers are practitioners and students in the related professions including architecture, engineering, building, real estate, construction project and facilities management, and quantity and land surveying. Construction Technology for Tall Buildings M. Y. L. Chew, 2001 This study describes current construction practices and processes for tall buildings from foundation to roof. It discusses the construction sequence of the various proprietary systems and their merits and disadvantages. **Construction Technology For Tall Buildings (2nd Edition)** Yit Lin Michael Chew, 2000-12-29 This new edition of *Construction Technology for Tall Buildings* comprehensively revises and expands the previous edition, incorporating new topics and many new figures. The text introduces the latest construction practices and processes for tall buildings from foundation to roof. It acquaints the reader with the methods, materials, equipment, and systems used for the construction of tall buildings. The book progresses through the stages of site investigation, excavation and foundations, basement construction, structural systems for the superstructure, site and material handling, wall and floor construction, cladding, and roof construction. The construction sequence and the merits and limitations of the various proprietary systems commonly used in these stages are discussed. The target readers are practitioners and students in the related professions including architecture, engineering, building, real estate, project and property management, quantity and land surveying. **The Indian Concrete Journal**, 1996 Concrete International, 1983 **The Structural Engineer**, 1998 SPI/CI FirstSource Directory Institute of the Society of the Plastics Industry, 1998-01-16 **Civil Engineering**, 1993 **Journal of Ferrocement**, 1996 **Index of Conference Proceedings**, 1996 **Bulletin of the Institution of Engineers (India)**. Institution of Engineers (India), 1982 **Design of Offshore Concrete Structures** O.T. Gudmestad, 2000-08-03 Written by experienced professionals, this book provides a state-of-the-art account of the construction of offshore concrete structures. It describes the construction process and includes concept definition, project management, detailed design, and quality assurance, simplified analyses, and detailed design. **Australasian Oil and Gas Journal**, 1975 **Ossature métallique**, 1980 *Bulletin signalétique*, 1978 **Microlog**, **Canadian Research Index**, 1988 An index and document delivery service for Canadian report literature. Proceedings of the Society for Experimental Mechanics Society for Experimental Mechanics (U.S.), 1989 *Security Owner's Stock Guide*

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Table of Contents Design Of Offshore Concrete Structures Ci Premier

1. Understanding the eBook Design Of Offshore Concrete Structures Ci Premier
 - The Rise of Digital Reading Design Of Offshore Concrete Structures Ci Premier
 - Advantages of eBooks Over Traditional Books
2. Identifying Design Of Offshore Concrete Structures Ci Premier
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Design Of Offshore Concrete Structures Ci Premier
 - User-Friendly Interface
4. Exploring eBook Recommendations from Design Of Offshore Concrete Structures Ci Premier
 - Personalized Recommendations
 - Design Of Offshore Concrete Structures Ci Premier User Reviews and Ratings
 - Design Of Offshore Concrete Structures Ci Premier and Bestseller Lists

5. Accessing Design Of Offshore Concrete Structures Ci Premier Free and Paid eBooks
 - Design Of Offshore Concrete Structures Ci Premier Public Domain eBooks
 - Design Of Offshore Concrete Structures Ci Premier eBook Subscription Services
 - Design Of Offshore Concrete Structures Ci Premier Budget-Friendly Options
6. Navigating Design Of Offshore Concrete Structures Ci Premier eBook Formats
 - ePub, PDF, MOBI, and More
 - Design Of Offshore Concrete Structures Ci Premier Compatibility with Devices
 - Design Of Offshore Concrete Structures Ci Premier Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Design Of Offshore Concrete Structures Ci Premier
 - Highlighting and Note-Taking Design Of Offshore Concrete Structures Ci Premier
 - Interactive Elements Design Of Offshore Concrete Structures Ci Premier
8. Staying Engaged with Design Of Offshore Concrete Structures Ci Premier
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Design Of Offshore Concrete Structures Ci Premier
9. Balancing eBooks and Physical Books Design Of Offshore Concrete Structures Ci Premier
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Design Of Offshore Concrete Structures Ci Premier
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Design Of Offshore Concrete Structures Ci Premier
 - Setting Reading Goals Design Of Offshore Concrete Structures Ci Premier
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Design Of Offshore Concrete Structures Ci Premier
 - Fact-Checking eBook Content of Design Of Offshore Concrete Structures Ci Premier
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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