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Wärtsilä Encyclopedia of Ship Technology - 2015

Coatings for Corrosion Protection - Charles Smith 2005

Proposed Use of Floating Production, Storage, and Offloading Systems on the Gulf of Mexico Outer Continental Shelf, Western and Central Planning Areas - 2000

Transactions (C) - Institute of Marine Engineers 1902

Mooring System Engineering for Offshore Structures - Kai-Tung Ma
2019-06-04

The mooring system is a vital component of various floating facilities in the oil, gas, and renewables industries. However, there is a lack of comprehensive technical books dedicated to the subject. *Mooring System Engineering for Offshore Structures* is the first book delivering in-depth knowledge on all aspects of mooring systems, from design and analysis to installation, operation, maintenance and integrity management. The book gives beginners a solid look at the fundamentals involved during mooring designs with coverage on current standards and codes, mooring analysis and theories behind the analysis techniques. Advanced engineers can stay up-to-date through operation, integrity management, and practical examples provided. This book is recommended for students majoring in naval architecture, marine or ocean engineering, and allied disciplines in civil or mechanical engineering. Engineers and researchers in the offshore industry will benefit from the knowledge presented to understand the various types of mooring systems, their design, analysis, and operations. Understand the various types of mooring systems and the theories behind mooring analysis Gain practical experience and lessons learned from worldwide case studies Combine engineering fundamentals with practical applications to solve today's offshore challenges

Advancement in Emerging Technologies and Engineering Applications - Chun Lin Saw 2019-10-21

This volume contains selected and reviewed manuscripts from the 2nd Regional Conference on Mechanical and Marine Engineering (ReMME 2018), 'Sustainable Through Engineering,' which was held from November 7 to 9, 2018, at the Ipoh, Perak, Malaysia. This conference was organized by the Center of Refrigeration and Air Conditioning (CARE) and Center of Marine Engineering (CTME) Politeknik Ungku Omar, Jalan Raja Musa Mahadi, 31400 Ipoh, Perak. It discusses the expertise, skills, and techniques needed for the development of energy and renewable energy system, new materials and biomaterials, and marine technology. It focuses on finite element analysis, computational fluids dynamics, programming and mathematical methods that are used for engineering simulations, and present many state-of-the-art applications. For example, modern joining technologies can be used to fabricate new compound or composite materials, even those formed from dissimilar component materials. These composite materials are often exposed to harsh environments, must deliver specific characteristics, and are primarily used in automotive and marine technologies, i.e., ships, amphibious vehicles, docks, offshore structures, and even robots. An energy efficient methods such cogeneration, thermal energy storage and solar desalination also being highlighted as sustainable engineering in this book chapter. The committee members can be listed as follows: Patron: Dr. Hj. Zairon Mustapha (Director). Advisor: Muhmmad Zubir Mohd Hanifah (Deputy Director Academic), Dr. Azhar Abdullah (Head of Innovation, Research & Commercialization). Chairman 1: Dr. Adzuiéen Nordin. Chairman 2: Hairi Haizri Che Amat. Secretariat 1: Dr. Woo Tze Keong. Secretariat 2: Dr. Saw Chun Lin. Secretary: Mahani Mohd Zamberi, Maslinda Rahmad. Floor Manager: Dr. Adzuiéen Nordin, Marzuki Mohammad Treasurer: Shahrul Nahar Omar Kamal. Webmaster: Mohamad Asyraf Othoman, Mohd Assidiq Che Ahmad, Mohd Hashim Abd. Razak.

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Conference on Marine Applications for Microprocessors - Institute of Marine Engineers 1983

BMT Abstracts - 1997

Proposed Central Gulf of Mexico OCS Oil and Gas Lease Sales 185,190,194,198, and 201, and Proposed Western Gulf of Mexico OCS Oil and Gas Lease Sales 187,192,196, and 200 - 2002

Marine Design XIII - Pentti Kujala 2018-06-11

Marine Design XIII collects the contributions to the 13th International Marine Design Conference (IMDC 2018, Espoo, Finland, 10-14 June 2018). The aim of this IMDC series of conferences is to promote all aspects of marine design as an engineering discipline. The focus is on key design challenges and opportunities in the area of current maritime technologies and markets, with special emphasis on: • Challenges in merging ship design and marine applications of experience-based industrial design • Digitalisation as technological enabler for stronger link between efficient design, operations and maintenance in future • Emerging technologies and their impact on future designs • Cruise ship and icebreaker designs including fleet compositions to meet new market demands To reflect on the conference focus, *Marine Design XIII* covers the following research topic series: • State of art ship design principles - education, design methodology, structural design, hydrodynamic design; • Cutting edge ship designs and operations - ship concept design, risk and safety, arctic design, autonomous ships; • Energy efficiency and propulsions - energy efficiency, hull form design, propulsion equipment design; • Wider marine designs and practices - navy ships, offshore and wind farms and production. *Marine Design XIII* contains 2 state-of-the-art reports on design methodologies and cruise ships design, and 4 keynote papers on new directions for vessel design practices and tools, digital maritime traffic, naval ship designs, and new tanker design for arctic. *Marine Design XIII* will be of interest to academics and professionals in maritime technologies and marine design.

Asian Oil & Gas - 2007

MARIN Jubilee, 1992 - 1992

The highly competitive markets of the present require extraordinary ingenuity and skill to develop and construct proper ships and structures. In order to be successful a broad spectrum of knowledge is a necessity. Consequently, the role of information centres such as MARIN are becoming increasingly important. Only the most progressive and cost effective designs can meet the challenges facing the maritime industry. Ever higher standards are required to meet the demanding environment of economic pressure and the forces of nature. The contributions in this

volume provide the latest insights on the various technologies involved in arriving at a cost effective, acceptable, efficient, safe ships and offshore structures.

Handbook of Offshore Engineering (2-volume Set) - Subrata Chakrabarti 2005-08-19

* 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

Encyclopedia of Ocean Engineering - Weicheng Cui 2022-06-29

This encyclopedia adopts a wider definition for the concept of ocean engineering. Specifically, it includes (1) offshore engineering: fixed and floating offshore oil and gas platforms; pipelines and risers; cables and moorings; buoy technology; foundation engineering; ocean mining; marine and offshore renewable energy; aquaculture engineering; and subsea engineering; (2) naval architecture: ship and special marine vehicle design; intact and damaged stability; technology for energy efficiency and green shipping; ship production technology; decommissioning and recycling; (3) polar and Arctic Engineering: ice mechanics; ice-structure interaction; polar operations; polar design; environmental protection; (4) underwater technologies: AUV/ROV design; AUV/ROV hydrodynamics; maneuvering and control; and underwater-specific communicating and sensing systems for AUV/ROVs. It summarizes the A-Z of the background and application knowledge of ocean engineering for use by ocean scientists and ocean engineers as well as nonspecialists such as engineers and scientists from all disciplines, economists, students, and politicians. Ocean engineering theories, ocean devices and equipment, ocean design and operation technologies are described by international experts, many from industry and each entry offers an introduction and references for further study, making current technology and operating practices available for future generations to learn from. The book also furthers our understanding of the current state of the art, leading to new and more efficient technologies with breakthroughs from new theory and materials. As the land resources approach the exploitation limit, ocean resources are becoming the next choice for the sustainable development. As such, ocean engineering is vital in the 21st century.

Delineation Drilling Activities in Federal Waters Offshore, Santa Barbara County - 2001

Ship-Shaped Offshore Installations - Jeom Kee Paik 2007-01-15

Ship-shaped offshore units are some of the more economical systems for the development of offshore oil and gas, and are often preferred in marginal fields. These systems are especially attractive to develop oil and gas fields in deep and ultra-deep water areas and remote locations away from existing pipeline infrastructures. Recently, the ship-shaped offshore units have been applied to near shore oil and gas terminals. This 2007 text is an ideal reference on the technologies for design, building and operation of ship-shaped offshore units, within inevitable space requirements. The book includes a range of topics, from the initial contracting strategy to decommissioning and the removal of the units concerned. Coverage includes both fundamental theory and principles of the individual technologies. This book will be useful to students who will be approaching the subject for the first time as well as designers working on the engineering for ship-shaped offshore installations.

Twenty-Fourth Symposium on Naval Hydrodynamics - National Research Council 2003-11-15

This report is part of a series of reports that summarize this regular event. The report discusses research developments in ship design, construction, and operation in a forum that encouraged both formal and informal

discussion of presented papers.

Transactions of the Royal Institution of Naval Architects - Royal Institution of Naval Architects 2004

List of members in each volume.

Petroleum Abstracts - 1997

Ocean Industry - 1991

Offshore Floating Production - Max Lemanski 2023-01-16

This is the first book to focus on the law and practice relating to offshore oil and gas floating production. It deals with all legal and commercial risk management issues from initial concept through design, construction, modification, installation, acceptance, production and offloading, including ancillary legal topics; JV/consortiums, financing, insurance, decommissioning and intellectual property. Floating production projects are a popular method of achieving offshore oil and gas production, utilising vessels sitting over the offshore reservoir, receiving well fluids which are then processed, stored and offloaded to tankers. They operate in deep water, harsh conditions and marginal fields, and may be redeployed once the reservoir is depleted. There are numerous legal issues which arise in the context of floating production due to its specific characteristics, presenting a unique combination of challenges with the attendant risks and potential liabilities. This book analyses these risks and liabilities and considers how they may be allocated between the parties, how the consequences are avoided or mitigated and how disputes are in practice resolved. It illustrates these issues and competing legal arguments by focusing on each stage of the relationship between the oil and gas company and a specialist floating production contractor. The book will be of special interest to project managers and in-house lawyers at oil companies, offshore contractors, design consultants, construction companies, suppliers, vessel operators, banks, insurers and investors. It will also be of particular use to private practice lawyers in all jurisdictions where these projects occur; because contracts used in this industry are often written under English law, and contracts which are governed by local law follow a similar pattern.

Lloyd's List Ports of the World - 2010

Manual on Oil Pollution: Prevention - International Maritime Organization 1980

This Section of the Manual on Oil Pollution is intended to provide practical guidance related to the prevention of pollution from ships, and describes procedures for the handling of oil cargoes, bunkering, ship-to-ship transfer operations, transfer operations involving offshore units and operations in ice-covered waters. It also provides an overview of the various prevention practices, as a complement to the more detailed industry standards and Codes of Practice, currently available. The information provided is not intended to supersede or replace any information, law, or regulation contained in any other publication with respect to the waters and areas to which it pertains.

Gulf of Mexico OCS Oil and Gas Lease Sales, 2003-2007: Chapters 1-10 - United States. Minerals Management Service. Gulf of Mexico OCS Region 2002

Offshore Operation Facilities - Huacan Fang 2014-09-05

Offshore Operation Facilities: Equipment and Procedures provides new engineers with the knowledge and methods that will assist them in maximizing efficiency while minimizing cost and helps them prepare for the many operational variables involved in offshore operations. This book clearly presents the working knowledge of subsea operations and demonstrates how to optimize operations offshore. The first half of the book covers the fundamental principles governing offshore engineering structural design, as well as drilling operations, procedures, and equipment. The second part includes common challenges of deep water oil and gas engineering as well as beach (shallow) oil engineering, submarine pipeline engineering, cable engineering, and safety system engineering. Many examples are included from various offshore locations, with special focus on offshore China operations. In the offshore petroleum engineering industry, the ability to maintain a profitable business depends on the efficiency and reliability of the structure, the equipment, and the engineer. Offshore Operation Facilities: Equipment and Procedures assists engineers in meeting consumer demand while maintaining a profitable operation. Comprehensive guide to the latest technology, strategies, and best practices for offshore operations Step-by-step approach for dealing with common challenges such as deepwater and shallow waters Includes submarine pipeline, cable engineering, and safety system engineering

Unique examples from various offshore locations around the world, with special focus on offshore China

Tandem Mooring and Offloading Guidelines for Conventional Tankers at F(P)SO Facilities - Oil Companies International Marine Forum 2009

Intended to familiarise Masters, ship operators, F(P)SO Operators and project development teams with the general principles and equipment involved in F(P)SO - CT operations, these guidelines provide an understanding of the issues including design, equipment, operations, and environmental limitations in operation.

[Proceedings - Offshore Technology Conference](#) - 2001

Guidelines for Offshore Tanker Operations - 2018

Transactions - The Society of Naval Architects and Marine Engineers - Society of Naval Architects and Marine Engineers (U.S.) 2006
List of members in vols. 1-24, 38-54, 57.

Proceedings of the ... International Conference on Offshore Mechanics and Arctic Engineering - 2004

Ocean Thermal Energy Conversion Cold Water Pipe Workshop - 1980

Shipping World & Shipbuilder - 2000

NIST Special Publication - 2005

Proceedings - 1988

Guide to Port Entry - 2005

Guide to Single Point Moorings - Johan Wichers 2013-07-11

This book covers many different aspects of single point mooring systems. A single point mooring system is used to keep a vessel stationed at a fixed location. These vessels can for instance be a Floating Production Storage and Offloading System or Floating Storage and offloading system. Hundreds of these systems are operational today. The first part of this book shows a little history of the origins of oil and gas and the current supply and demand for oil. This book also shows some of the history of the development of the single point mooring systems. It also addresses the many different aspects of designing these types of systems. This book

will also go into the detail of the hydrodynamics and loadings that act on these vessels by wind and waves and the behavior of the different types of mooring systems.

[Marine Design XIII, Volume 1](#) - Pentti Kujala 2018-06-04

This is volume 1 of a 2-volume set. Marine Design XIII collects the contributions to the 13th International Marine Design Conference (IMDC 2018, Espoo, Finland, 10-14 June 2018). The aim of this IMDC series of conferences is to promote all aspects of marine design as an engineering discipline. The focus is on key design challenges and opportunities in the area of current maritime technologies and markets, with special emphasis on: • Challenges in merging ship design and marine applications of experience-based industrial design • Digitalisation as technological enabler for stronger link between efficient design, operations and maintenance in future • Emerging technologies and their impact on future designs • Cruise ship and icebreaker designs including fleet compositions to meet new market demands To reflect on the conference focus, Marine Design XIII covers the following research topic series: • State of art ship design principles - education, design methodology, structural design, hydrodynamic design; • Cutting edge ship designs and operations - ship concept design, risk and safety, arctic design, autonomous ships; • Energy efficiency and propulsions - energy efficiency, hull form design, propulsion equipment design; • Wider marine designs and practices - navy ships, offshore and wind farms and production. Marine Design XIII contains 2 state-of-the-art reports on design methodologies and cruise ships design, and 4 keynote papers on new directions for vessel design practices and tools, digital maritime traffic, naval ship designs, and new tanker design for arctic. Marine Design XIII will be of interest to academics and professionals in maritime technologies and marine design.

[Ocean Structures](#) - Srinivasan Chandrasekaran 2017-01-06

This book addresses the concepts of material selection and analysis, choice of structural form, construction methods, environmental loads, health monitoring, non-destructive testing, and repair methodologies and rehabilitation of ocean structures. It examines various types of ocean and offshore structures, including drilling platforms, processing platforms and vessels, towers, sea walls and surge barriers, and more. It also explores the use of MEMS in offshore structures, with regard to military and oil exploration applications. Full-color figures as well as numerous solved problems and examples are included to help readers understand the applied concepts.

[Proceedings of the ... International Offshore Mechanics and Arctic Engineering Symposium](#) - 1987