British Qualifications

The ultimate reference for selecting, operating and maintaining offshore structures, provides a road map for designing structures which will stand up even in the harshest environments. The selection of the proper type of offshore structure is discussed from a technical and economic point of view.

Ocean Structures

Proceedings - Offshore Technology Conference

Oceanology International Offshore Technology

Practical Engineering Management of Offshore Oil and Gas Platforms

Marine Technology Society Journal

Offshore Pioneers: Brown & Root and the History of Offshore Oil and Gas

Offshore Structural Engineering
Collection of selected, peer reviewed papers from the 2nd International Conference on Civil, Offshore and Environmental Engineering, June 3-5, 2014, Kuala Lumpur, Malaysia. The 128 papers are grouped as follows: Chapter 1: Environmental and Water Resources Engineering, Chapter 2: Coastal and Offshore Engineering, Chapter 3: Structures and Materials, Chapter 4: Construction and Project Management, Chapter 5: Building, Highway, Geotechnical, Transportation Engineering and Geoinformatics

**Marine Structural Design**

**Final Report of the Task Committee on Pipelines in the Ocean**

This is the fifth volume in a series of publications containing classic papers from the early years of the Offshore Technology Conference (OTC), the world’s leading event for the development of offshore resources in the fields of exploration, drilling, production, and environmental protection. The American Society of Civil Engineers (ASCE), through its participation in and support of the OTC, plays a major role in the innovation and evolution of the technologies needed to overcome the challenges facing development of resources in the offshore environment. The years since the first OTC Conference in 1969 have seen the presentation of over 10,000 papers in the various technical disciplines central to offshore development. A few of the civil engineering papers, presented throughout OTC’s history, provided innovation in, vision for and lasting impact on the design, construction, or installation of offshore infrastructure. Many have been adopted by design standards worldwide or became an integral part of design software. Some have had influence far beyond the offshore industry, and some have become integral to the design process of onshore structures such as buildings and bridges. Offshore Technology in Civil Engineering: Hall of Fame Papers from the Early Years; Volume Five is a collection of the eight winning papers inducted in 2010 at an award ceremony during OTC in May of 2010. The engineering methods published in these papers have proven their value through widespread use, permeating codes, standards, guidelines, and engineering software.

**Construction of Prestressed Concrete Structures**

**Proceedings of the 1st Vietnam Symposium on Advances in Offshore Engineering**

**Structural, Environmental, Coastal and Offshore Engineering**

**Offshore Structures**

**A History of Canadian Marine Technology**

This book contains nine classic papers from the Offshore Technology Conference (OTC), which is the world’s leading event for the development of offshore resources in the fields of drilling, exploration, production, and environmental protection. These papers provide innovation in, vision for, and lasting impact on design, construction or installation of offshore infrastructure, and have influence far beyond the offshore industry, some becoming integral to the design process of onshore structures such as buildings and bridges. The ASCE OTC Committee have chosen these classic documents to represent the outstanding papers from the early years of the OTC that withstand test of time. They contain engineering methods that have proven their value through widespread use, permeating codes, standards, guidelines and engineering software. Topics include: wave force evaluation; ultimate strength and reverse capacity; tubular joint material and design; pile foundations; and pipeline installation.
**Civil Engineering in the Arctic Offshore**

Successfully estimate risk and reliability, and produce innovative, yet reliable designs using the approaches outlined in Offshore Structural Engineering: Reliability and Risk Assessment. A hands-on guide for practicing professionals, this book covers the reliability of offshore structures with an emphasis on the safety and reliability of offshore facilities during analysis, design, inspection, and planning. Since risk assessment and reliability estimates are often based on probability, the author utilizes concepts of probability and statistical analysis to address the risks and uncertainties involved in design. He explains the concepts with clear illustrations and tutorials, provides a chapter on probability theory, and covers various stages of the process that include data collection, analysis, design and construction, and commissioning. In addition, the author discusses advances in geometric structural forms for deep-water oil exploration, the rational treatment of uncertainties in structural engineering, and the safety and serviceability of civil engineering and other offshore structures. An invaluable guide to innovative and reliable structural design, this book: Defines the structural reliability theory Explains the reliability analysis of structures Examines the reliability of offshore structures Describes the probabilistic distribution for important loading variables Includes methods of reliability analysis Addresses risk assessment and more

**Offshore Site Investigation and Foundation Behaviour**

**Oceanology International and Offshore Technology**

**Offshore Technology in Civil Engineering**

123 papers representing the current state of practice and theory in the civil engineering aspects of offshore development in the arctic. Papers are arranged under the headings: Artificial islands; Exploration; Ice forces; Sea ice; Coastal offshore bases; Protecting the arctic environment; Probabilistic methods in arctic offshore engineering; Ice mechanics; Marine installations; Soil properties; Materials; Wave and ice protection; Marine pipelines in the arctic; Remote sensing, surveying and mapping; Offshore installation in the Bering Sea; Research.

**Offshore Technology in Civil Engineering**

**Proceedings of the Pacific Congress on Marine Technology, PACON 86**

**Dynamic Analysis and Design of Offshore Structures**

**Marine Technology**

**Recent Concepts in Offshore Structural Engineering**

This book introduces readers to various types of offshore platform geometries. It addresses the various environmental loads encountered by these structures, and
provides detailed descriptions of the fundamentals of structural dynamics in a classroom style, helping readers estimate damping in offshore structures and grasp these aspects’ applications in preliminary analysis and design. Basic concepts of structural dynamics are emphasized through simple illustrative examples and exercises. Design methodologies and guidelines, which are FORM based concepts, are explained through a selection of applied sample structures. Each chapter also features tutorials and exercises for self-learning. A dedicated chapter on stochastic dynamics helps students to extend the basic concepts of structural dynamics to this advanced domain of research. Hydrodynamic response of offshore structures with perforated members is one of the most recent research applications, and has proven to be one of the most effective means of retrofitting offshore structures. In addition, the book integrates the concepts of structural dynamics with the FORM-evolved design of offshore structures, offering a unique approach. This new edition is divided into seven chapters, each of which has been updated. Each chapter also includes a section on frequently asked Questions and Answers (Q&A), which enhances understanding of this complex subject through easy and self-explanatory text. Furthermore, the book presents valuable content with respect to new and recent research carried out by the author in structural dynamics. All numeric examples have been re-checked with more additional explanations. New exercises have been added to improve understanding of the subject matter. Computer coding is also included (wherever possible) to aid computer-based learning of the contents of the book. The book can serve as a textbook for senior undergraduate and graduate courses in civil, structural, applied mechanics, mechanical, aerospace, naval architecture and ocean engineering programs. The book can also serve as a text for professional learning and development programs or as a guide for practicing and consulting offshore structural engineers. The contents of this book will be useful to graduate students, researchers, and professionals alike.

Civil Engineering Practice: Geotechnical

Fifty years ago, in November 1947, Brown & Root helped Kerr-McGee build the first out-of-sight-land offshore platform that produced oil. The date is widely celebrated as the birth of the modern offshore industry. In the years since this historic occasion, Brown & Root has continued to pioneer in the design and construction of offshore pipelines and platforms. Along with the rest of the offshore industry, the company has helped develop technology capable of finding and producing oil in deepwater and in harsh environments around the world. This history puts a human face on the process of technological change. Using the words of many of those who took part in Brown & Root's offshore activities, this book recounts their efforts to find practical ways to recover offshore oil. Building on lessons learned in the Gulf of Mexico before and after World War II, the company's personnel adapted offshore technologies to conditions encountered in Venezuela, the Middle East, Alaska, and other regions before becoming one of the first engineering and construction companies to confront the challenge of North Sea development in the 1960’s. Through times of boom and bust in the oil industry, the search for effective technology had continued. The process has not always been smooth, but the results have been impressive. As we enter a new and exciting era in offshore technology, the history of the first fifty years of the industry provides a useful context for understanding current and future events.

Civil Engineering in the Oceans V

Guide to Information Services in Marine Technology

Miscellaneous Report

Offshore Technology in Civil Engineering: Movements and forces developed by wave-induced slides in soft clays

Two main areas of offshore activity are addressed in this book: Site investigation on assessment; and Applications and foundation engineering. The 37 contributions from a wide ranging group of international experts, are resulting from the Offshore Site Investigation and Foundation Behaviour Conference, London, U.K., September 1992. Adequate determination of site conditions can only be achieved by the integrated approach of using geological, geophysical and geotechnical data. Developments in data acquisition techniques are illustrated through case histories in the section on Geotechnical Sampling and Testing. In the section on Advanced Interpretation Techniques and Integrated Interpretations the state of the art of these topics is also illustrated by case histories. A review of foundation behaviour is
presented in the section on Gravity Foundations, Foundation Performance Monitoring, Piling Research and Design Criteria. These topics are illustrated in the light of field experience and recent research, in particular that involving full-scale tests and monitoring. This book provides many illustrative figures and much pertinent information to exploration and marine geophysicists, petroleum and offshore engineers and for researchers working these fields.

**Offshore Technology in Civil Engineering, Volume Five**

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.

**The Journal of Offshore Technology**

Methods and practices for constructing sophisticated prestressed concrete structures. Construction of Prestressed Concrete Structures, Second Edition, provides the engineer or construction contractor with a complete guide to the design and construction of modern, high-quality concrete structures. This highly practicable new edition of Ben C. Gerwick's classic guide is expanded and almost entirely rewritten to reflect the dramatic developments in materials and techniques that have occurred over the past two decades. The first of the book's two sections deals with materials and techniques for prestressed concrete, including the latest recipes for high-strength and durable concrete mixes, new reinforcing materials and their placement patterns, modern prestressing systems, and special techniques such as lightweight concrete and composite construction. The second section covers application to buildings; bridges; piling; and marine structures, including offshore platforms, floating structures, tanks, and containments. Special subjects such as cracking and corrosion, repair and strengthening of existing structures, and construction in remote areas are presented in the final chapters. For engineers and construction contractors involved in any type of prestressed concrete construction, this book enables the effective implementation of advanced structural concepts and their economical and reliable translation into practice.

**Maritime Engineering and Technology**

**Undersea Technology and Oceanology International Offshore Technology**

Practical Engineering Management of Offshore Oil and Gas Platforms delivers the first must-have content to the multiple engineering managers and clients devoted to the design, equipment, and operations of offshore oil and gas platforms. Concepts explaining how to interact with the various task forces, getting through bid proposals, and how to maintain project control are all covered in the necessary training reference. Relevant equipment and rule of thumb techniques to calculate critical features on the design of the platform are also covered, including tank capacities and motor power, along with how to consistently change water, oil, and gas production profiles over the course of a project. The book helps offshore oil and gas operators and engineers gain practical understanding of the multiple disciplines involved in offshore oil and gas projects using experience-based approaches and lessons learned. Delivers the first ever must-have content to the multiple engineering managers and clients devoted to the design, equipment, and operations of offshore oil and gas platforms. Contains rules of thumb techniques to calculate critical features on the design of the platform. Includes practical checklists for project estimates and cost evaluation for effective project execution in budgeting and scheduling. Helps offshore oil and gas operators and engineers gain practical understanding of the multiple disciplines involved in offshore oil and gas projects using experience-based approaches and lessons learned.

**Current Bibliography of Offshore Technology and Offshore Literature Classification**

These proceedings gather a selection of refereed papers presented at the 1st Vietnam Symposium on Advances in Offshore Engineering (VSOE 2018), held on 1-3 November 2018 in Hanoi, Vietnam. The contributions from researchers, practitioners, policymakers, and entrepreneurs address technological and policy changes.
intended to promote renewable energies, and to generate business opportunities in oil and gas and offshore renewable energy. With a special focus on energy and geotechnics, the book brings together the latest lessons learned in offshore engineering, technological innovations, cost-effective and safer foundations and structural solutions, environmental protection, hazards, vulnerability, and risk management. The book offers a valuable resource for all graduate students, researchers and industrial practitioners working in the fields of offshore engineering and renewable energies.

**Offshore Technology in Civil Engineering**

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

**Preprints - Offshore Technology Conference**

This collection contains five papers of coastal engineering significance that were inducted in 2019 into the Hall of Fame at the Offshore Technology Conference

**Annual Offshore Technology Conference [preprints].**

This collection contains five papers of coastal engineering significance that were inducted in 2017 into the Hall of Fame at the Offshore Technology Conference.

**Marine Technology and SNAME News**

The Offshore Technology Conference (OTC) is the world's leading event for the development of offshore resources in the fields of drilling, exploration, production, and environmental protection. Offshore Technology in Civil Engineering: Hall of Fame Papers from the Early Years, Volume Three is a collection of the nine winning papers inducted in 2008. The ASCE OTC Committee have chosen these classic documents to represent the outstanding papers from the early years of the OTC that withstand test of time. These classic documents, together with those contained in the preceding volumes, form a core of current practice worldwide, covering major topics in offshore technology. This volume will be valuable to anyone involved in the design, construction, and installation of offshore infrastructure.

**Marine Geotechnology and Nearshore/offshore Structures**

Maritime Engineering and Technology includes the papers from the 1st International Conference on Maritime Technology and Engineering (MARTECH 2011, Lisbon, Portugal, 10-12 May 2011). MARTECH 2011 was held to commemorate 100 years of the Instituto Superior Tico (IST) in Lisbon, and the contributions in the present volume reflect the

**Offshore Technology in Civil Engineering**

Copyright code: 7d1c87bf697471fbfbe76ab921d2b7a8