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Volume 1
Subsea Valves and Actuators for the Oil and Gas Industry
Design, Construction and Maintenance
Offshore Installation Practice
Introduction to Coastal Engineering and Management
Pipelines and Risers
Corrosion Control for Offshore Structures
Subsea Pipelines and Risers
Universal Well Control
Subsea Engineering Handbook
Wind Energy Engineering
The Petroleum Engineering Handbook: Sustainable Operations
Corrosion Protection for the Oil and Gas Industry
Drilling Engineering Handbook
Handbook of Ocean Wave Energy
Geosynthetics and Their Applications
Dynamic Analysis and Design of Offshore Structures
Bridge Engineering Handbook
Handbook of Offshore Engineering (2-volume set)
Offshore Structures
The Ocean Engineering Handbook
Gas Turbine Engineering Handbook

Health, Safety, and Environmental Management in Offshore and Petroleum Engineering
Mooring System Engineering for Offshore Structures
Pipelines, Subsea Equipment, and Structures
Mechanical Engineer's Data Handbook
A Practical Guide
Structural Engineer's Pocket Book British Standards Edition
Marine Structural Design
Standard Handbook of Petroleum and Natural Gas Engineering:
Design and Optimization of Metal Structures
A Handbook for Onshore and Offshore Wind Turbines
North Sea Oil and Gas, British Industry and the Offshore Supplies Office
Ship and Mobile Offshore Unit Automation
Fundamental Design and Automation Technologies in Offshore Robotics
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CHARLES AINSLEY

Mechanical Engineer's Reference Book Elsevier

Petroleum engineering now has its own true classic handbook that reflects the profession's status as a mature major engineering discipline. Formerly titled the Practical Petroleum Engineer's Handbook, by Joseph Zaba and W.T. Doherty (editors), this new, completely updated two-volume set is expanded and revised to give petroleum engineers a comprehensive source of industry standards and engineering practices. It is packed with the key, practical information and data that petroleum engineers rely upon daily. The result of a fifteen-year effort, this handbook

covers the gamut of oil and gas engineering topics to provide a reliable source of engineering and reference information for analyzing and solving problems. It also reflects the growing role of natural gas in industrial development by integrating natural gas topics throughout both volumes. More than a dozen leading industry experts-academia and industry-contributed to this two-volume set to provide the best, most comprehensive source of petroleum engineering information available.

Handbook of Offshore Oil and Gas Operations Elsevier

Piping and valve engineers rely on common industrial standards for selecting and maintaining valves, but these standards are not specific to the subsea oil and gas industry. Subsea Valves and Actuators for the Oil and Gas Industry delivers a needed reference to go beyond the standard to specify how to select,

test, and maintain the right subsea oil and gas valve for the project. Each chapter focuses on a specific type of valve with a built-in structured table on valve selection, helping guide the engineer to the most efficient valve. Covering subsea-specific protection, the reference also gives information on high pressure protection systems (HIPPS) and discusses corrosion management within the subsea sector, such as Hydrogen Induced Stress Cracking Corrosion (HISC). Additional benefits include understanding the concept of different safety valves in subsea, selecting different valves and actuators located on subsea structures such as Christmas trees, manifolds, and HIPPS modules, with a full detail review including sensors, logic solver, and solenoid which is designed to save cost and improve the reliability in the subsea system. Rounding out with chapters on factory acceptance testing (FAT) and High Integrity Pressure Protection Systems (HIPPS), Subsea Valves and Actuators for the Oil and Gas Industry gives subsea engineers and managers a much-needed tool to better understand today's subsea technology. Understand practical information about all types of subsea valves and actuators with over 600 visuals and several case studies Learn and review the applicable standards and specifications from API and ISO in one convenient location Protect your assets with a high-pressure protection system (HIPPS) and subsea-specific corrosion management including Hydrogen Induced Stress Cracking Corrosion (HISC)

Hydronautics Subsea Engineering Handbook

The Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and operation of gas turbines. This revision includes new case histories, the latest

techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them. Comprehensive treatment of Gas Turbines from Design to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NOx Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems

The Sea of Lost Opportunity Gulf Professional Publishing

This handbook is the definitive reference for the interdisciplinary field that is ocean engineering. It integrates the coverage of fundamental and applied material and encompasses a diverse spectrum of systems, concepts and operations in the maritime

environment, as well as providing a comprehensive update on contemporary, leading-edge ocean technologies. Coverage includes an overview on the fundamentals of ocean science, ocean signals and instrumentation, coastal structures, developments in ocean energy technologies and ocean vehicles and automation. It aims at practitioners in a range of offshore industries and naval establishments as well as academic researchers and graduate students in ocean, coastal, offshore and marine engineering and naval architecture. The Springer Handbook of Ocean Engineering is organized in five parts: Part A: Fundamentals, Part B: Autonomous Ocean Vehicles, Subsystems and Control, Part C: Coastal Design, Part D: Offshore Technologies, Part E: Energy Conversion

Volume 1 CRC Press

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

Subsea Valves and Actuators for the Oil and Gas Industry
Elsevier

Accompanying CD-ROM in pocket at the back of book

Design, Construction and Maintenance Academic Press
Subsea Engineering Handbook Gulf Professional Publishing
Offshore Installation Practice CRC Press

* 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

Introduction to Coastal Engineering and Management Gulf Professional Publishing

This book is open access under a CC BY-NC 2.5 license. This book offers a concise, practice-oriented reference-guide to the field of ocean wave energy. The ten chapters highlight the key rules of thumb, address all the main technical engineering aspects and describe in detail all the key aspects to be considered in the techno-economic assessment of wave energy converters. Written in an easy-to-understand style, the book answers questions relevant to readers of different backgrounds, from developers, private and public investors, to students and researchers. It is thereby a valuable resource for both newcomers and experienced practitioners in the wave energy sector.

Pipelines and Risers World Scientific

This book is a contribution to the history of a vital stage of UK technical and economic development, perhaps the most important since the Second World War. It shows, from an industrial viewpoint, how the British handled the exploitation of their most significant natural resource gain of the 20th century. Notwithstanding the nearly 30 years of government support through the Offshore Supplies Office, the UK has not reaped the full benefit of the North Sea discoveries; this book attempts to explain why. It will assist governments and industries faced with future instances of unforeseen, specialist and large-scale new

demand to manage their reactions more effectively. It also throws light on how governments can pursue strategic industrial objectives while leaving market mechanisms to function with minimal interference, something some administrations – perhaps even the British – may wish to do now or in the future. Covers the entire period from the first well offshore Britain until the dismantling of the specific British industrial policy measures for offshore supplies Based in large measure upon archives not previously accessed and the private testimony/papers of participants 'Drills down' to the level of individual company decisions through case study and other material The only properly researched description of how the world's first major local content initiative developed

Corrosion Control for Offshore Structures Springer

Offshore Installation Practice describes the main requirements and applications for safe offshore installation and operation. This book discusses the arrangements to be accepted by national and international classification and certification authorities with respect to flare systems, fuel gas and crude oil burning, fire protection, fire detection and extinction, heat exchangers, and piping design. The importance of life-support systems is also highlighted. This book is comprised of 18 chapters and begins by introducing the reader to offshore gas and oil production platforms, with emphasis on safety considerations for fixed drilling/production platforms, produced fluid systems, and the gas injection compression system. The discussion then turns to piping systems; fuel gas and crude-oil burning arrangements; flare systems; and equipment for offshore-related projects, such as storage tankers and barges, compensator systems, and floating

production and storage units. The chapters that follow focus on safety shutdown systems; the design of submersibles and diving equipment; and the basic principles of fire protection systems. This book concludes by considering the regulatory requirements for the prevention of oil pollution arising from offshore oil and gas exploration. This monograph will be useful as a reference work for those engaged in the design and installation of offshore units. Subsea Pipelines and Risers Springer

Offshore Electrical Engineering Manual, Second Edition, is for electrical engineers working on offshore projects who require detailed knowledge of an array of equipment and power distribution systems. The book begins with coverage of different types of insulation, hot-spot temperatures, temperature rise, ambient air temperatures, basis of machine ratings, method of measurement of temperature rise by resistance, measurement of ambient air temperature. This is followed by coverage of AC generators, automatic voltage regulators, AC switchgear transformers, and programmable electronic systems. The emphasis throughout is on practical, ready-to-apply techniques that yield immediate and cost-effective benefits. The majority of the systems covered in the book operate at a nominal voltage of 24 y dc and, although it is not necessary for each of the systems to have separate battery and battery charger systems, the grouping criteria require more detailed discussion. The book also provides information on equipment such as dual chargers and batteries for certain vital systems, switchgear tripping/closing, and engine start batteries which are dedicated to the equipment they supply. In the case of engines which drive fire pumps, duplicate charges and batteries are also required. Packed with

charts, tables, and diagrams, this work is intended to be of interest to both technical readers and to general readers. It covers electrical engineering in offshore situations, with much of the information gained in the North Sea. Some topics covered are offshore power requirements, generator selection, process drivers and starting requirements, control and monitoring systems, and cabling and equipment installation Discusses how to perform inspections of electrical and instrument systems on equipment using appropriate regulations and specifications Explains how to ensure electrical systems/components are maintained and production is uninterrupted Demonstrates how to repair, modify, and install electrical instruments ensuring compliance with current regulations and specifications Covers specification, management, and technical evaluation of offshore electrical system design Features evaluation and optimization of electrical system options including DC/AC selection and offshore cabling designs

Universal Well Control CRC Press

Mechanical Engineer's Data Handbook provides a comprehensive yet concise set of information relevant in the practice of mechanical engineering. The book is comprised of eight chapters that cover the main disciplines of mechanical engineering. The text first details the strengths of materials, and then proceeds to discussing applied mechanics. Next, the book talks about thermodynamics and fluid mechanics. The fifth chapter presents manufacturing technology, which includes cutting tools, metal forming processes, and soldering and brazing. The next two chapters deal with engineering materials and measurements, respectively. The last chapter of the text presents general data,

such as units, symbols, and fasteners. The book will be most useful to students and practitioners of mechanical engineering.

Subsea Engineering Handbook CRC Press

A comprehensive and detailed reference guide on the integrity and safety of oil and gas pipelines, both onshore and offshore. Covers a wide variety of topics, including design, pipe manufacture, pipeline welding, human factors, residual stresses, mechanical damage, fracture and corrosion, protection, inspection and monitoring, pipeline cleaning, direct assessment, repair, risk management, and abandonment. Links modern and vintage practices to help integrity engineers better understand their system and apply up-to-date technology to older infrastructure. Includes case histories with examples of solutions to complex problems related to pipeline integrity. Includes chapters on stress-based and strain-based design, the latter being a novel type of design that has only recently been investigated by designer firms and regulators. Provides information to help those who are responsible to establish procedures for ensuring pipeline integrity and safety.

Wind Energy Engineering WIT Press

A variable game changer for those companies operating in hostile, corrosive marine environments, *Corrosion Control for Offshore Structures* provides critical corrosion control tips and techniques that will prolong structural life while saving millions in cost. In this book, Ramesh Singh explains the ABCs of prolonging structural life of platforms and pipelines while reducing cost and decreasing the risk of failure. *Corrosion Control for Offshore Structures* places major emphasis on the popular use of cathodic protection (CP) combined with high efficiency coating to prevent

subsea corrosion. This reference begins with the fundamental science of corrosion and structures and then moves on to cover more advanced topics such as cathodic protection, coating as corrosion prevention using mill applied coatings, field applications, and the advantages and limitations of some common coating systems. In addition, the author provides expert insight on a number of NACE and DNV standards and recommended practices as well as ISO and Standard and Test Methods. Packed with tables, charts and case studies, *Corrosion Control for Offshore Structures* is a valuable guide to offshore corrosion control both in terms of its theory and application. Prolong the structural life of your offshore platforms and pipelines. Understand critical topics such as cathodic protection and coating as corrosion prevention with mill applied coatings. Gain expert insight on a number of NACE and DNV standards and recommended practices as well as ISO and Standard Test Methods.

The Petroleum Engineering Handbook: Sustainable Operations

Thomas Telford

The Structural Engineer's Pocket Book British Standards Edition is the only compilation of all tables, data, facts and formulae needed for scheme design to British Standards by structural engineers in a handy-sized format. Bringing together data from many sources into a compact, affordable pocketbook, it saves valuable time spent tracking down information needed regularly. This second edition is a companion to the more recent Eurocode third edition. Although small in size, this book contains the facts and figures needed for preliminary design whether in the office or on-site. Based on UK conventions, it is split into 14 sections

including geotechnics, structural steel, reinforced concrete, masonry and timber, and includes a section on sustainability covering general concepts, materials, actions and targets for structural engineers.

Corrosion Protection for the Oil and Gas Industry Gulf Professional Publishing

Compiled with the help of an internationally acclaimed panel of experts, the *Ocean Engineering Handbook* is the most complete reference available for professionals. It offers you comprehensive coverage of important areas of the theory and practice of oceanic/coastal engineering and technology. This well organized text includes five major sections: M

Drilling Engineering Handbook Elsevier

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

Handbook of Ocean Wave Energy Gulf Professional Publishing

Wind Energy Engineering: A Handbook for Onshore and Offshore Wind Turbines is the most advanced, up-to-date and research-focused text on all aspects of wind energy engineering. Wind energy is pivotal in global electricity generation and for achieving future essential energy demands and targets. In this fast moving field this must-have edition starts with an in-depth look at the present state of wind integration and distribution worldwide, and continues with a high-level assessment of the advances in turbine technology and how the investment, planning, and economic infrastructure can support those innovations. Each chapter includes a research overview with a detailed analysis and new case studies looking at how recent research developments can be applied. Written by some of the most forward-thinking professionals in the field and giving a complete examination of one of the most promising and efficient sources of renewable energy, this book is an invaluable reference into this cross-disciplinary field for engineers. Contains analysis of the latest high-level research and explores real world application potential in relation to the developments Uses system international (SI) units and imperial units throughout to appeal to global engineers Offers new case studies from a world expert in the field Covers the latest research developments in this fast moving, vital subject

Geosynthetics and Their Applications Butterworth-

Heinemann

This is the first book in the petroleum sector that sheds light on the real obstacles to sustainable development and provides solutions to each problem encountered. Each solution is complete with an economic analysis that clarifies why petroleum operations can continue with even greater profit than before

while ensuring that the negative environmental impact is diminished. The new screening tools and models proposed in this book will provide one with proper guidelines to achieve true sustainability in both technology development and management of the petroleum sector.

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