

FREE ACCESS BP CASING AND TUBING DESIGN MANUAL

Piping Design Handbook

This encyclopedic volume covers almost every phase of piping design - presenting procedures in a straightforward way.;Written by 82 world experts in the field, the Piping Design Handbook: details the basic principles of piping design; explores pipeline shortcut methods in an in-depth manner; and presents expanded rules of thumb for the piping design

Proceedings [of The] Drilling Conference

Petroleum technology, Gas technology, Petroleum extraction, Natural gas extraction, Drilling (mineral extraction), Pipelines, Oil pipelines, Gas pipelines, Casing pipes, Pipes, Transportation, Storage, Materials handling, Welding

Concrete Pipe Design Manual

Petroleum, Natural gas, Pipes, Casing pipes, Pipe fittings, Pipe connections, Approval testing, Verification, Performance testing, Identification methods, Codes, Mechanical testing, Physical testing, Loading

Petroleum and Natural Gas Industries. Care and Use of Casing and Tubing

Annotation \"This fourth edition of AWWA's manual M11 Steel Pipe - A Guide for Design and Installation provides a review of experience and design theory regarding steel pipe used for conveying water. Steel water pipe meeting the requirements of appropriate AWWA standards has been found satisfactory for many applications including aqueducts, supply lines, transmission mains, distribution mains, and many more.\"--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved.

Petroleum and Natural Gas Industries. Procedures for Testing Casing and Tubing Connections

Standard Handbook of Petroleum and Natural Gas Engineering, Third Edition, provides you with the best, state-of-the-art coverage for every aspect of petroleum and natural gas engineering. With thousands of illustrations and 1,600 information-packed pages, this handbook is a handy and valuable reference. Written by dozens of leading industry experts and academics, the book provides the best, most comprehensive source of petroleum engineering information available. Now in an easy-to-use single volume format, this classic is one of the true \"must haves\" in any petroleum or natural gas engineer's library. A classic for over 65 years, this book is the most comprehensive source for the newest developments, advances, and procedures in the oil and gas industry. New to this edition are materials covering everything from drilling and production to the economics of the oil patch. Updated sections include: underbalanced drilling; integrated reservoir management; and environmental health and safety. The sections on natural gas have been updated with new sections on natural gas liquefaction processing, natural gas distribution, and transport. Additionally there are updated and new sections on offshore equipment and operations, subsea connection systems, production control systems, and subsea control systems. Standard Handbook of Petroleum and Natural Gas Engineering, Third Edition, is a one-stop training tool for any new petroleum engineer or veteran looking for a daily

practical reference. Presents new and updated sections in drilling and production Covers all calculations, tables, and equations for every day petroleum engineers Features new sections on today's unconventional resources and reservoirs

Steel Pipe

This manual explains the design, installation, and maintenance of steel water pipe and fittings for potable water service.

Standard Handbook of Petroleum and Natural Gas Engineering

Intended to assist designers in selecting the best available structural components for a given design problem and to provide an overall understanding of the role of steel tubular members in structural design.

Oil & Gas Journal Data Book

The accelerated growth of the world population creates an increase of energy needs. This requires new paths for oil supply to its users, which can be potential hazardous sources for individuals and the environment. Risk Analysis for Prevention of Hazardous Situations in Petroleum and Natural Gas Engineering explains the potential hazards of petroleum engineering activities, emphasizing risk assessments in drilling, completion, and production, and the gathering, transportation, and storage of hydrocarbons. Designed to aid in decision-making processes for environmental protection, this book is a useful guide for engineers, technicians, and other professionals in the petroleum industry interested in risk analysis for preventing hazardous situations.

Steel Pipe

Corporate Social Irresponsibility focuses on ethical failures in order to relate corporate responsibility to business ethics, corporate governance, and organization effectiveness. The book advocates a strategic approach to CSR – ethical management cannot, and should not, be divorced from effective management. Corporate social responsibility has transitioned from oxymoron into a defining challenge of the twenty first century. Taking the recent financial crisis as a starting point, Alexander examines the underlying ethical and legal crises these events expose in the business world. The problems that have come to light go beyond issues of firm financial performance into the integrity of the manufacturing and marketing processes, and relations with consumers. As such, the book presents a model that resolves the apparent conflict between maximizing shareholder value, and meeting the interests of other firm stakeholders. Alexander presents a balanced view, contrasting her model with alternative approaches. The book also covers the impact of globalization on management, the ethics of outsourcing, the limits of regulation, as well as poverty alleviation and social entrepreneurship. Blending a comprehensive theoretical framework with a broad range of cases, this book covers the latest major changes in US legislation, as well as recent corporate scandals making it a valuable accompaniment to any course in CSR, business ethics, or business, government and society.

Petroleum and Natural Gas Industries

Casing design has followed an evolutionary trend and most improvements have been made due to the advancement of technology. Contributions to the technology in casing design have come from fundamental research and field tests, which have made casing safe and economical. This book gathers together much available information in the subject area and shows how it may be used in deciding the best procedure for casing design i.e. optimizing casing design for deriving maximum profit from a particular well. The problems and their solutions, which are provided in each chapter, and the computer program (3.5 in. disk) are intended to serve two purposes:- firstly, as illustrations for students and practicing engineers to understand the subject matter, and secondly, to enable them to optimize casing design for a wide range of wells to be drilled in the

future.

Design Manual for Structural Tubing

EMERGENCY RESPONSE MANAGEMENT OF OFFSHORE Examines the Deepwater Horizon disaster and offers processes for safety and environmental protection Though renewable energy is a growing piece of the energy “pie,” fossil fuels still dominate our energy supplies and will continue to do so for decades. This makes offshore drilling, especially in places like the Gulf of Mexico and North Sea, extremely important for the future of the world’s energy supply. Unfortunately, the world has been witnessing, over and over again, accidents, deadly explosions, spills, and environmental disasters that could have been avoided with proper safety and environmental processes put in place. The Deepwater Horizon catastrophe is the largest offshore oil spill in U.S. history and an ecological nightmare of epic proportions. Emergency Response Management of Offshore Oil Spills aids in the response of this and future disasters by providing this handy reference volume for engineers, managers, and other emergency responders. This timely publication outlines the toxic nature of crude oil, covering properties of crude oil, chemical composition, toxicity to humans and marine life, and investigates the impact of oil spills from historical case studies. The current arsenals available to address oil spills, such as dispersants, absorbing booms, skimming, and other methods, are also discussed. Technologies that are rapidly being developed to address the Gulf Oil Spill are considered, along with extensive information on chemical protective clothing, air monitoring, respiratory protection, management of waste, and much more. The book concludes with a chapter discussing responsible care and takes a critical look at the reasons why the Deepwater Horizon rig catastrophe happened and examines the follow-up that ensued after the incident. Emergency Response Management of Offshore Oil Spills provides: Examples of 26 major oil spills ranked from largest to smallest, describing each incident and the amount of oil spilled Recommendations and guidance on proper air monitoring methods Suggestions related to protective garments such as respirators Comparative product information on chemical dispersants, shoreline bleaching and cleaning chemicals Detailed toxicity data for humans and marine life Discussions in the areas of deficiencies in responding to spills and why the oil industry needs to be more responsive to developing technologies Hazardous materials protocols, including OSHA- and EPA- recommended safe work practices for dealing with hazardous materials

Risk Analysis for Prevention of Hazardous Situations in Petroleum and Natural Gas Engineering

Includes Part 1, Number 1: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - June)

Guidelines for the Management, Design, Installation and Maintenance of Small Bore Tubing Systems

Ideal for removing large amounts of liquids from wells, Electrical Submersible Pumps (ESP) are perhaps the most versatile and profitable pieces of equipment in a petroleum company's arsenal. However, if not properly maintained and operated, they could quickly become an expensive nightmare. The first book devoted to the design, operation, maintenance, and care, Electrical Submersible Pumps Manual delivers the tools and applicable knowledge needed to optimize ESP performance while maximizing of run life and the optimization of production. The perfect companion for new engineers who need to develop and apply their skills more efficiently or experienced engineers who wish further develop their knowledge of best practice techniques, this manual covers basic electrical engineering, hydraulics and systems analysis before addressing pump components such as centrifugal pumps, motors, seals, separators, and cables. In addition, the author includes comprehensive sections on analysis and optimization, monitoring and trouble-shooting, and installation design and installation under special conditions. * Apply the best operating practices to optimise production * Track and troubleshoot problems such as gas, solids and corrosion *Prevent expensive

failures such as cable burn and impeller cavitation * Design and analyze a system using up-to-date computer programs * Establish ESP analysis monitoring methods and strategies * Ensure optimum operator-vendor relationship for mutual benefits

Oil and Gas Production Handbook: An Introduction to Oil and Gas Production

The Instrument and Automation Engineers' Handbook (IAEH) is the Number 1 process automation handbook in the world. The two volumes in this greatly expanded Fifth Edition deal with measurement devices and analyzers. Volume one, Measurement and Safety, covers safety sensors and the detectors of physical properties, while volume two, Analysis and Analysis, describes the measurement of such analytical properties as composition. Complete with 245 alphabetized chapters and a thorough index for quick access to specific information, the IAEH, Fifth Edition is a must-have reference for instrument and automation engineers working in the chemical, oil/gas, pharmaceutical, pollution, energy, plastics, paper, wastewater, food, etc. industries.

Corporate Social Irresponsibility

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

Casing Design - Theory and Practice

This open access book offers a timely guide to challenges and current practices to permanently plug and abandon hydrocarbon wells. With a focus on offshore North Sea, it analyzes the process of plug and abandonment of hydrocarbon wells through the establishment of permanent well barriers. It provides the reader with extensive knowledge on the type of barriers, their functioning and verification. It then discusses

plug and abandonment methodologies, analyzing different types of permanent plugging materials. Last, it describes some tests for verifying the integrity and functionality of installed permanent barriers. The book offers a comprehensive reference guide to well plugging and abandonment (P&A) and well integrity testing. The book also presents new technologies that have been proposed to be used in plugging and abandoning of wells, which might be game-changing technologies, but they are still in laboratory or testing level. Given its scope, it addresses students and researchers in both academia and industry. It also provides information for engineers who work in petroleum industry and should be familiarized with P&A of hydrocarbon wells to reduce the time of P&A by considering it during well planning and construction.

Emergency Response Management of Offshore Oil Spills

Completions are the conduit between hydrocarbon reservoirs and surface facilities. They are a fundamental part of any hydrocarbon field development project. They have to be designed for safely maximising the hydrocarbon recovery from the well and may have to last for many years under ever changing conditions. Issues include: connection with the reservoir rock, avoiding sand production, selecting the correct interval, pumps and other forms of artificial lift, safety and integrity, equipment selection and installation and future well interventions. * Course book based on course well completion design by TRACS International * Unique in its field: Coverage of offshore, subsea, and landbased completions in all of the major hydrocarbon basins of the world. * Full colour

JPT. Journal of Petroleum Technology

Gas lifting can be used throughout the whole lifespan of an oil well: from the time it dies until its abandonment. The Gas Lift Manual is a thorough, handy reference that is essential to the practicing engineer needing to successfully perform this type of artificial lift project. In his manual, Takacs imparts more than 30 years experience and research in the artificial lift methods arena. He starts the manual with an introduction to gas lift, and then moves on to the various parts of the gas lift model, including analysis and troubleshooting, as well as, common gas lift malfunctions. This book will be particularly useful to those needing to research this technology, as the author has supplied extensive resource references to other literature sources. Features & Benefits- - A handy single-source reference - Includes extensive references for further research - Ample illustrations help the reader understand the text

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The book makes the case for process safety and provides a brief overview of the upstream industry and of CCPS Risk Based Process Safety. The majority of the book focuses on the concepts of implementing process safety in wells, onshore, offshore, and projects. Topics include Overview of Upstream Operations; Overview of Risk Based Process Safety (RBPS); Application of RBPS in Drilling, Completions, Work-Overs & Interventions, Application of RBPS in Onshore Production, Application of RBPS in Offshore Production, Application of RBPS to Engineering Design, Installation, and Construction, Future Developments in the Field

Electrical Submersible Pumps Manual

The blowout of the Macondo well on April 20, 2010, led to enormous consequences for the individuals involved in the drilling operations, and for their families. Eleven workers on the Deepwater Horizon drilling rig lost their lives and 16 others were seriously injured. There were also enormous consequences for the companies involved in the drilling operations, to the Gulf of Mexico environment, and to the economy of the region and beyond. The flow continued for nearly 3 months before the well could be completely killed, during which time, nearly 5 million barrels of oil spilled into the gulf. Macondo Well-Deepwater Horizon Blowout examines the causes of the blowout and provides a series of recommendations, for both the oil and gas industry and government regulators, intended to reduce the likelihood and impact of any future losses of

well control during offshore drilling. According to this report, companies involved in offshore drilling should take a "system safety" approach to anticipating and managing possible dangers at every level of operation—from ensuring the integrity of wells to designing blowout preventers that function under all foreseeable conditions—in order to reduce the risk of another accident as catastrophic as the Deepwater Horizon explosion and oil spill. In addition, an enhanced regulatory approach should combine strong industry safety goals with mandatory oversight at critical points during drilling operations. Macondo Well-Deepwater Horizon Blowout discusses ultimate responsibility and accountability for well integrity and safety of offshore equipment, formal system safety education and training of personnel engaged in offshore drilling, and guidelines that should be established so that well designs incorporate protection against the various credible risks associated with the drilling and abandonment process. This book will be of interest to professionals in the oil and gas industry, government decision makers, environmental advocacy groups, and others who seek an understanding of the processes involved in order to ensure safety in undertakings of this nature.

Instrument and Automation Engineers' Handbook

Long been recognized as a valuable, comprehensive reference book that offers practical day-to-day applications for students and experienced engineering professionals alike, this new edition, the first since 1987, has been greatly expanded and consists of seven volumes. Its direct descendents are the 'Frick' handbook, 1962 and the 'Bradley' handbook, published in 1987.

Journal of Petroleum Technology

Cementing is arguably the most important operation performed on a well. Well cementing technology is an amalgam of many interdependent scientific and engineering disciplines which are essential to achieve the primary goal of well cementing - zonal isolation. This textbook is a comprehensive and up-to-date reference concerning the application of these disciplines to cementing a well. "Well Cementing" is envisioned as an upper-level university book, as well as a reference for practicing engineers and scientists. The first section of the book illustrates how the quality of the hydraulic seal provided by the cement sheath can affect well performance. The second section concentrates on the design phase of a cementing treatment, and various aspects of cement job execution are covered in the third section. The fourth section addresses cement job evaluation. The text is supported by many tables and figures, an extensive bibliography and an index. There are also chapters devoted to subjects which are currently of particular interest to the industry, including the prevention of annular gas migration, foamed cements, and cementing horizontal wellbores. The chemistry associated with well cementing is presented in detail. Most of the contributors to this volume are employees of Dowell Schlumberger, one of the leading companies in this field.

Petroleum Abstracts

Modern Well Design - Second Edition presents a unified approach to the well design process and drilling operations. Following an introduction to the field, the second chapter addresses drilling fluids, as well as optimal mud weight, hole cleaning, hydraulic optimization, and methods to handle circulation losses. A relatively large chapter on geomec

Chemical Engineering Design

This book is the maiden volume in a new series devoted to lectures delivered through the annual seminars "Short Courses on Multiphase Flow," held primarily at ETH Zurich continuously since 1984. The Zurich short courses, presented by prominent specialists in the various topics covered, have attracted a very large number of participants. This series presents fully updated and when necessary re-grouped lectures in a number of topical volumes. The collection aims at giving a condensed, critical and up-to-date view of basic knowledge on multiphase flows in relation to systems and phenomena encountered in industrial applications. The present volume covers the background of Multiphase Flows (MPF) that introduces the reader to the

particular nature and complexity of multiphase flows and to basic but critical aspects of MPFs including concepts and the definition of the quantities of interest, an introduction to modelling strategies for MPFs, flow regimes, flow regime maps and transition criteria. It also deals with the ubiquitous needs of the multiphase-flow modeller, namely pressure drop and phase distribution, i.e., the void fraction and the topology of the phases that determines the flow regimes.

Introduction to Permanent Plug and Abandonment of Wells

Well Productivity Handbook: Vertical, Fractured, Horizontal, Multilateral, Multi-fractured, and Radial-Fractured Wells, Second Edition delivers updated examples and solutions for oil and gas well management projects. Starting with the estimation of fluid and reservoir properties, the content then discusses the modeling of inflow performance in wells producing different types of fluids. In addition, it describes the principle of well productivity analysis to show how to predict productivity of wells with simple trajectories. Then advancing into more complex trajectories, this new edition demonstrates how to predict productivity for more challenging wells, such as multi-lateral, multi-fractured and radial-fractured. Rounding out with sample problems to solve and future references to pursue, this book continues to give reservoir and production engineers the tools needed to tackle the full spectrum of completion types. Covers the full range of completion projects, from simple to unconventional, including multi-layer and multi-fractured well deliverability Includes practice examples to calculate, future references, and summaries at the end of every chapter Updated throughout, with complex well trajectories, new case studies and essential derivations

Well Completion Design

Gas Lift Manual

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