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Proceedings of the 2014 Energy Materials Conference

Analysis of Bolted Joints

IMechE Engineers' Databook

Pressure Systems and Mechanical Plant

Process Machinery Safety and Reliability

Pumping Manual International

Springer Handbook of Mechanical Engineering

Principles, Practice and Economics of Plant and Process Design

Engineers' Data Book

Handbook of Pumps and Pumping

Space Flight

Materials, Manufacturing Technology, Electronics and Information Science

Where to Next?

Proceedings of the ASME Pressure Vessels and Piping Conference--2005: Operations, applications, and components

Handbook of Engineering Practice of Materials and Corrosion

Circular Cylinders and Pressure Vessels

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An Applied Guide to Process and Plant Design

Intelligent Structure and Vibration Control

Hydrogen Energy Engineering

Chemical Engineering Design

Serially Produced Pressure Vessels

HOUSTON REYNOLDS

SI edition Elsevier

APPLIED STRENGTH OF MATERIALS 6/e, SI Units Version provides coverage of basic strength of materials for students in Engineering Technology (4-yr and 2-yr) and uses only SI units. Emphasizing applications, problem solving, design of structural members, mechanical devices and systems, the book has been updated to include coverage of the latest tools, trends, and techniques. Color graphics support visual learning, and illustrate concepts and applications. Numerous instructor resources are offered, including a Solutions Manual, PowerPoint slides, Figure Slides of book figures, and extra problems. With SI units used exclusively, this text is ideal for all Technology programs outside the USA.

Nafta John Wiley & Sons

Keep it Running, Keep it Safe is based upon the highly regarded Process Machinery Safety and Reliability by the same author. Keep it Running, Keep it Safe, is an invaluable ready reference for day to day work in the process industries. The book outlines a procedure for the assessment of machinery safety and reliability, covering: Hazard assessment Legal requirements Reliability hazards and failure modes Control of Hazards Health and safety compliance It provides a general interpretation of the relevant legislation and identifies safety measures and procedures for the assessment of equipment safety and reliability. With liberal use of case studies and real examples, it explains complex issues in a direct and straightforward style. Keep it Running, Keep it Safe offers a comprehensive understanding of the issues and techniques involved in improving safety and reliability with the potential to make a real difference to everyday engineering practice for plant managers, plant engineers, maintenance engineers, loss prevention engineers, engineering designers, inspectors, and all those concerned with the safe and efficient operation of engineering plant.

Proceedings of the 2014 Energy Materials Conference Trans Tech Publications Ltd

Annotation This entry in the proceedings series from the July 2003 conference discusses both computer methods for the analysis of bolted joints and the results of recent experimental investigations. Topics include the tightening sequence for bolted flange joint assembly, the effect of helical coil repair on the fatigue life of studs, the calculation of bolted flange connections of floating and metal-to-metal contact type, finite element analysis of the thermal and mechanical behaviors of bolted joints, and a web-enabled database for gasket parameters. No subject index is provided.

Annotation (c)2003 Book News, Inc., Portland, OR (booknews.com).

Wiley

An Applied Guide to Process and Plant Design, 2nd edition, is a guide to process plant design for both students and professional engineers. The book covers plant layout and the use of spreadsheet programs and key drawings produced by professional engineers as aids to design; subjects that are usually learned on the job rather than in education. You will learn how to produce smarter plant

design through the use of computer tools, including Excel and AutoCAD, "What If Analysis, statistical tools, and Visual Basic for more complex problems. The book also includes a wealth of selection tables, covering the key aspects of professional plant design which engineering students and early-career engineers tend to find most challenging. Professor Moran draws on over 20 years' experience in process design to create an essential foundational book ideal for those who are new to process design, compliant with both professional practice and the IChemE degree accreditation guidelines. Includes new and expanded content, including illustrative case studies and practical examples Explains how to deliver a process design that meets both business and safety criteria Covers plant layout and the use of spreadsheet programs and key drawings as aids to design Includes a comprehensive set of selection tables, covering aspects of professional plant design which early-career designers find most challenging

Analysis of Bolted Joints John Wiley & Sons

This book explores a new, economically viable approach to pressure vessel design, included in the (harmonized) standard EN 13445 (for unfired pressure vessels) and based on linear as well as non-linear Finite Element analyses. It is intended as a supporting reference of this standard's route, providing background information on the underlying principles, basic ideas, presuppositions, and new notions. Examples are included to familiarize readers with this approach, to highlight problems and solutions, advantages and disadvantages. * The only book with background information on the direct route in pressure vessel design. * Contains many worked examples, supporting figures and tables and a comprehensive glossary of terms.

MechE Engineers' Databook Butterworth-Heinemann

Space has always been intriguing people's imagination. However, space flight has only been feasible over the last 60 years. The collective effort of distinguished international researchers, within the field of space flight, has been incorporated into this book suitable to the broader audience. The book has been edited by Prof. George Dekoulis, Aerospace Engineering Institute (AEI), Cyprus, an expert on the state-of-the-art implementations of reconfigurable space physics systems. The book consists of six sections, namely, "Introduction," "Spacecraft Simulators," "Spacecraft Navigation," "Spacecraft Propulsion," "Suborbital Flight," and "Deep-Space Flight." We hope that this book will be beneficial for professionals, researchers, and academicians and inspires the younger generations into pursuing relevant academic studies and professional careers within the space industry.

Pressure Systems and Mechanical Plant ASM International

Written by an experienced engineer, this book contains practical information on all aspects of pumps including classifications, materials, seals, installation, commissioning and maintenance. In addition you will find essential information on units, manufacturers and suppliers worldwide, providing a unique reference for your desk, R&D lab, maintenance shop or library. * Includes maintenance techniques, helping you get the optimal performance out of your pump and reducing maintenance costs * Will help you to understand seals, couplings and ancillary equipment, ensuring systems are set up properly to save time and money * Provides useful contacts for manufacturers and suppliers who specialise in pumps, pumping and ancillary equipment

Process Machinery Safety and Reliability CRC Press

The Engineers' Guide to Pressure Equipment incorporates both the technical and administrative aspects of vessel manufacture and use, introducing the basic principles of pressure equipment design, manufacture, quality assurance/inspection and operation during its working life. Engineering data from a wide range of sources is included. The author guides the reader through the most commonly used current and recent pressure vessel codes and standards. The Engineers' Guide to Pressure Equipment is an invaluable reference for engineers, technicians and students with activities in the pressure equipment business. COMPLETE CONTENTS: Websites: Quick reference Pressure equipment types and components Basic design Applications of pressure vessel codes Manufacture, QA, inspection and testing Flanges, nozzles, valves and fittings Boilers and HRSGs Materials of construction Welding and NDT Failure Pressure Equipment Directives and legislation In-service inspection References and Information Sources.

Pumping Manual International World Scientific

The safe design and operation of pressure equipment and pressure systems is key to much of the infrastructure in any present-day industrial society. This book presents an amalgam of best practice from a range of international specialists, as well as highlighting new areas that require research and development. In May 2002, pressure equipment took a major step forward with the emergence of the first edition of the new European Standard EN13445. Pressure Equipment Technology; Theory and Practice not only describes and analyses the status of the new Standard (providing underpinning data) but primarily it seeks to provide new light and present new information on many of the areas where there is insufficient coverage in EN13445 or other Standards. The information is presented in a variety of ways in order to make it useful not only for the specialist but for the general reader as well. The researcher in pressure vessel technology will find here a comprehensive and up-to date picture on many important and vital topics that need to be considered. The non-expert will also find a variety of different analysis approaches that will give interest in a whole spectrum of pressure equipment and storage vessels. The papers and information included in this volume give expert guidance on a variety of important topics that must be understood if appropriate design of pressure equipment is going to be undertaken. These include, Piping and Finite Element Analysis Saddles - Plastic Collapse Loads Vessel Ends and Eccentric Loads Containment Vessels Explosive Loading Welding and Fatigue

Springer Handbook of Mechanical Engineering Springer Science & Business Media

Originally published in 1994, this second edition of Corrosion in the Petrochemical Industry collects peer-reviewed articles written by experts in the field of corrosion that were specifically chosen for this book because of their relevance to the petrochemical industry. This edition expands coverage of the different forms of corrosion, including the effects of metallurgical variables on the corrosion of several alloys. It discusses protection methods, including discussion of corrosion inhibitors and corrosion resistance of aluminum, magnesium, stainless steels, and nickels. It also includes a section devoted specifically to petroleum and petrochemical industry related issues.

Principles, Practice and Economics of Plant and Process Design Gulf Professional Publishing
Chemical Engineering Design is one of the best-known and most widely adopted texts available for students of chemical engineering. It completely covers the standard chemical engineering final year

design course, and is widely used as a graduate text. The hallmarks of this renowned book have always been its scope, practical emphasis and closeness to the curriculum. That it is written by practicing chemical engineers makes it particularly popular with students who appreciate its relevance and clarity. Building on this position of strength the fifth edition covers the latest aspects of process design, operations, safety, loss prevention and equipment selection, and much more. Comprehensive in coverage, exhaustive in detail, and supported by extensive problem sets at the end of each chapter, this is a book that students will want to keep to hand as they enter their professional life. The leading chemical engineering design text with over 25 years of established market leadership to back it up; an essential resource for the compulsory design project all chemical engineering students take in their final year A complete and trusted teaching and learning package: the book offers a broader scope, better curriculum coverage, more extensive ancillaries and a more student-friendly approach, at a better price, than any of its competitors Endorsed by the Institution of Chemical Engineers, guaranteeing wide exposure to the academic and professional market in chemical and process engineering.

Engineers' Data Book BoD - Books on Demand

This DVD contains a collection of papers presented at Energy Materials 2014, a conference organized jointly by The Chinese Society for Metals (CSM) and The Minerals, Metals & Materials Society (TMS), and held November 4-6, 2014, in Xi'an, Shaanxi Province, China. With the rapid growth of the world's energy production and consumption, the important role of energy materials has achieved worldwide acknowledgement. Material producers and consumers constantly seek the possibility of increasing strength, improving fabrication and service performance, simplifying processes, and reducing costs. Energy Materials 2014 has provided a forum for academics, researchers, and engineers around the world to exchange state-of-the-art development and information on issues related to energy materials. The papers on the DVD are organized around the following topics: Materials for Coal-Based Systems Materials for Gas Turbine Systems Materials for Nuclear Systems Materials for Oil and Gas Materials for Pressure Vessels

Handbook of Pumps and Pumping Elsevier

Chemical Engineering DesignSI editionElsevier

Space Flight John Wiley & Sons

Overpressure Protection in the Process Industry: A Critical View provides a practical and pragmatic guidance for anyone dealing with overpressure protection in the process industry. The book explains the background of complicated international codes and regulations, offering a pragmatic and practical approach on how codes that generally do not address specific industries or applications outside the oil and gas industry can be interpreted for specific cases. The book also gives a critical view on these codes and regulations and where they do or don't make sense, along with the challenges in some instances, including technical and practical argumentations. Finally, the book covers specific problem areas and sizing methods when using safety relief devices as overpressure protection, such as how to handle installation, backpressures, blowdowns, the 3% rule, types of chatter and other destructive forces in relief devices. Helps readers understand and apply codes and regulations in a pragmatic way Provides sizing guidance on most overpressure scenarios and how to approach them in a pragmatic way Creates awareness about the possible dangers of overpressure,

especially in aging plants and how modifications on the process can jeopardize the overpressure protection. Addresses non-regulated types of overpressure protection in a process plant, such as the overpressure and vacuum protection of low-pressure storage tanks and tank blanketing.

Materials, Manufacturing Technology, Electronics and Information Science Springer

Industrial high pressure processes open the door to many reactions that are not possible under 'normal' conditions. These are to be found in such different areas as polymerization, catalytic reactions, separations, oil and gas recovery, food processing, biocatalysis and more. The most famous high pressure process is the so-called Haber-Bosch process used for fertilizers and which was awarded a Nobel prize. Following an introduction on historical development, the current state, and future trends, this timely and comprehensive publication goes on to describe different industrial processes, including methanol and other catalytic syntheses, polymerization and renewable energy processes, before covering safety and equipment issues. With its excellent choice of industrial contributions, this handbook offers high quality information not found elsewhere, making it invaluable reading for a broad and interdisciplinary audience.

Where to Next? Springer

Plant Design and Operations, Second Edition, explores design and operational considerations for oil and gas facilities, covering all stages of the plant cycle, with an emphasis on safety and risk. The oil and gas industry is constantly looking for cost optimization strategies, requiring plant-based personnel to expand their knowledge base outside their discipline or subject. Relevant reference materials are scattered throughout various official standards, while staff lack the immediate hands-on knowledge to safely facilitate the full operational life cycle of the plant. This second edition is a complete source of solutions for major process projects including offshore facilities, chemical plants, oil refineries, and pipelines. This single reference provides insight for safer operations and maintenance best practices. It has been updated with more focus on safety in design and operations, standards, and compliance, and more detailed information on equipment and system/component design. Explores design and operational considerations for oil and gas facilities, covering all stages of the plant cycle, with an emphasis on safety and risk. Includes updated new chapters covering principles of design, security regulations, and human factors. Includes more relevant equipment information covering storage tanks, valves, and control systems. Remains the only source to provide hands-on solutions for process plants in the refining and chemical industries.

Proceedings of the ASME Pressure Vessels and Piping Conference--2005: Operations, applications, and components John Wiley & Sons

Still the only book offering comprehensive coverage of the analysis and design of both API equipment and ASME pressure vessels. This edition of the classic guide to the analysis and design of process equipment has been thoroughly updated to reflect current practices as well as the latest ASME Codes and API standards. In addition to covering the code requirements governing the design of process equipment, the book supplies structural, mechanical, and chemical engineers with expert guidance to the analysis and design of storage tanks, pressure vessels, boilers, heat exchangers, and related process equipment and its associated external and internal components. The use of process equipment, such as storage tanks, pressure vessels, and heat exchangers has expanded considerably over the last few decades in both the petroleum and chemical industries. The

extremely high pressures and temperatures involved with the processes for which the equipment is designed makes it potentially very dangerous to property and life if the equipment is not designed and manufactured to an exacting standard. Accordingly, codes and standards such as the ASME and API were written to assure safety. Still the only guide covering the design of both API equipment and ASME pressure vessels, *Structural Analysis and Design of Process Equipment, 3rd Edition*: Covers the design of rectangular vessels with various side thicknesses and updated equations for the design of heat exchangers. Now includes numerical vibration analysis needed for earthquake evaluation. Relates the requirements of the ASME codes to international standards. Describes, in detail, the background and assumptions made in deriving many design equations underpinning the ASME and API standards. Includes methods for designing components that are not covered in either the API or ASME, including ring girders, leg supports, and internal components. Contains procedures for calculating thermal stresses and discontinuity analysis of various components. *Structural Analysis and Design of Process Equipment, 3rd Edition* is an indispensable tool-of-the-trade for mechanical engineers and chemical engineers working in the petroleum and chemical industries, manufacturing, as well as plant engineers in need of a reference for process equipment in power plants, petrochemical facilities, and nuclear facilities.

Handbook of Engineering Practice of Materials and Corrosion Springer Science & Business Media

This book focuses on the fundamental principles and latest research findings in hydrogen energy fields including: hydrogen production, hydrogen storage, fuel cells, hydrogen safety, economics, and the impact on society. Further, the book introduces the latest development trends in practical applications, especially in commercial household fuel cells and commercial fuel cell vehicles in Japan. This book not only helps readers to further their basic knowledge, but also presents the state of the art of hydrogen-energy-related research and development. This work serves as an excellent reference for beginners such as graduate students, as well as a handbook and systematic summary of entire hydrogen-energy systems for scientists and engineers.

Circular Cylinders and Pressure Vessels Chemical Engineering DesignSI edition

This proceedings consists of fifty one selected papers presented at the 2015 International Workshop on Materials, Manufacturing Technology, Electronics and Information Science (MMTEI2015), which was successfully held in Wuhan, China during October 9-11, 2015. MMTEI2015 covered a wide range of fundamental studies, technical innovations and industrial applications in the 4 areas, namely Material Science and Application, Mechanical Engineering and Mechatronics, Electronics Engineering and Microelectronics, and Information Science. This workshop aims to provide a forum for scientists, scholars, engineers and students from universities all around the world and the industry to present ongoing research activities, and hence to foster research relations between universities and the industry. All accepted papers were subjected to a strict peer-review process by 2-3 expert referees.

Contents: Material Science and Application, Mechanical Engineering and Mechatronics, Electronics Engineering and Microelectronics, Information Science. Readership: Researchers and professionals in electrical and electronics engineering, material engineering and computer networks.

Industrial High Pressure Applications John Wiley & Sons

This resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions. It features the work of authors from all over the world

who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems. Each subject is discussed in detail and supported by numerous figures and tables.

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