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STERLING WESTON

*Principles, Practice and Economics of
Plant and Process Design* Springer
Science & Business Media

While there is no "perfect" solution or absolute zero risk, engineering design can significantly reduce risk potential in the CPI. In Guidelines for Design Solutions to Process Equipment Failures, industry experts offer their broad experience in identifying numerous

solutions to the more common process equipment failures including inherent safer/passive, active, and procedural solutions, in decreasing order of robustness and reliability. The book challenges the engineer to identify opportunities for inherent and passive safety features early, and use a risk-based approach to process safety systems specification. The book is organized into three basic sections: 1) a technique for making risk-based design decisions; 2) potential failure scenarios for 10 major processing equipment categories; and 3) two worked examples showing how the techniques can be applied. The equipment categories covered are: vessels, reactors, mass transfer equipment, fluid transfer equipment, solids-fluid separators, solids

handling and processing equipment, and piping and piping components. Special Details: Hardcover book plus 3.5" diskette for use in any word processing program with design solutions for use in PHAs.

Handbook of Mechanical In-Service Inspection Elsevier

Within the boiler, piping and pressure vessel industry, pressure relief devices are considered one of the most important safety components. These Devices are literally the last line of defense against catastrophic failure or even lose of life. Written in plain language, this fifth book in the ASME Simplified series addresses the various codes and recommended standards of practice for the maintenance and continued operations of pressure relief

valves as specified by the American Society of Mechanical Engineers and the American Petroleum Institute. Covered in this book are: preventive maintenance procedures, methods for evaluation of mechanical components and accepted methods for cleaning, adjusting and lubricating various components to assure continued operation and speed performance as well as procedures for recording and evaluating these items.

Relief Systems Handbook John Wiley & Sons

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

A Quick Guide to Pressure Relief Valves (PRVs) Elsevier

Surface Production Operations: Facility Piping and Pipeline Systems, Volume III is a hands-on manual for applying mechanical and physical principles to all phases of facility piping and pipeline system design, construction, and

operation. For over twenty years this now classic series has taken the guesswork out of the design, selection, specification, installation, operation, testing, and trouble-shooting of surface production equipment. The third volume presents readers with a "hands-on" manual for applying mechanical and physical principles to all phases of facility piping and pipeline system design, construction, and operation. Packed with charts, tables, and diagrams, this authoritative book provides practicing engineer and senior field personnel with a quick but rigorous exposition of piping and pipeline theory, fundamentals, and application. Included is expert advice for determining phase states and their impact on the operating conditions of facility piping and pipeline

systems; determining pressure drop and wall thickness; and optimizing line size for gas, liquid, and two-phase lines. Also included are a guide to applying international design codes and standards, and guidance on how to select the appropriate ANSI/API pressure-temperature ratings for pipe flanges, valves, and fittings. Covers new and existing piping systems including concepts for expansion, supports, manifolds, pigging, and insulation requirements Presents design principles for a pipeline pigging system Teaches how to detect, monitor, and control pipeline corrosion Reviews onshore and offshore safety and environmental practices Discusses how to evaluate mechanical integrity
Measurement and Safety Lees' Loss

Prevention in the Process Industries Hazard Identification, Assessment and Control
?The book is written with a balanced and comprehensive approach towards chemical process safety, involving hazards, both of materials and processes. It includes analysis of hazards in plants in order to further explain the preventive and protective measures along with management involvement and safety audits to the readers. The text can be used as a textbook by under graduate students as well as a reference by industry professionals, consulting organizations, marketing personnel and others involved in safety aspects in process industry.
Hazard Identification, Assessment and Control Gulf Professional Publishing

This comprehensive sister volume to Cliff Matthews' highly successful Handbook of Mechanical Works Inspection gives a detailed coverage of pressure equipment and other mechanical plant such as cranes and rotating equipment. Key features: Accessible source of information Lavishly illustrated with numerous diagrams, photographs, and tables A wealth of valuable information Detailed, comprehensive coverage Written in easily accessible style A 'must buy' reference book The Handbook of Mechanical In-Service Inspection is a vital source of information for: plant owners and operators maintenance engineers inspection engineers from insurance companies and 'competent bodies' who perform in-service inspection health and safety operatives

engineers operating pressure systems and mechanical plant all those concerned with the safe and efficient operation of machinery, plant, and pressure equipment. All engineering pressure systems and other types of mechanical equipment must be installed, operated, and maintained properly. It must be safe and comply with standards, regulations, and guidelines. In-service inspection is more formally controlled by statutory requirements than other types of inspection. The Handbook of Mechanical In-service Inspection puts a good deal of emphasis on the 'compliance' aspects and the 'duty of care' requirements placed on plant owners, operators, and inspectors. The book is suitable for those who operate pressure systems, lifting equipment, and

similar mechanical plant are subject to rigorous inspection from external bodies as a matter of course. All operators have a duty to conduct in-service checks and internal inspection procedures to ensure the safe, reliable, and economic running of their equipment.

Pressure Relief Devices Tata McGraw-Hill Education

The Safety Valve Handbook is a professional reference for design, process, instrumentation, plant and maintenance engineers who work with fluid flow and transportation systems in the process industries, which covers the chemical, oil and gas, water, paper and pulp, food and bio products and energy sectors. It meets the need of engineers who have responsibilities for specifying, installing, inspecting or maintaining

safety valves and flow control systems. It will also be an important reference for process safety and loss prevention engineers, environmental engineers, and plant and process designers who need to understand the operation of safety valves in a wider equipment or plant design context. No other publication is dedicated to safety valves or to the extensive codes and standards that govern their installation and use. A single source means users save time in searching for specific information about safety valves. The Safety Valve Handbook contains all of the vital technical and standards information relating to safety valves used in the process industry for positive pressure applications. Explains technical issues of safety valve operation in detail, including

identification of benefits and pitfalls of current valve technologies Enables informed and creative decision making in the selection and use of safety valves The Handbook is unique in addressing both US and European codes: - covers all devices subject to the ASME VIII and European PED (pressure equipment directive) codes; - covers the safety valve recommendations of the API (American Petroleum Institute); - covers the safety valve recommendations of the European Normalisation Committees; - covers the latest NACE and ATEX codes; - enables readers to interpret and understand codes in practice Extensive and detailed illustrations and graphics provide clear guidance and explanation of technical material, in order to help users of a wide range of experience and

background (as those in this field tend to have) to understand these devices and their applications Covers calculating valves for two-phase flow according to the new Omega 9 method and highlights the safety difference between this and the traditional method Covers selection and new testing method for cryogenic applications (LNG) for which there are currently no codes available and which is a booming industry worldwide Provides full explanation of the principles of different valve types available on the market, providing a selection guide for safety of the process and economic cost Extensive glossary and terminology to aid readers' ability to understand documentation, literature, maintenance and operating manuals Accompanying website provides an online valve

selection and codes guide.

Chemical Engineering Design 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
*Assembly, Nineteenth Session, 12-23
November 1995* IChemE

While there are many resources available on fire protection and prevention in chemical petrochemical and petroleum plants—this is the first book that pulls them all together in one comprehensive resource. This book provides the tools to develop, implement, and integrate a fire protection program into a company or facility's Risk Management System. This definitive volume is a must-read for loss prevention managers, site managers, project managers, engineers and EHS professionals. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Volume 42 - Pressure-Relieving Devices: Rupture Disks: Selection of to Process Control and Dynamics: Savings from Upgrading McGraw Hill Professional

This symposium focuses on making the best use of current safety knowledge and avoiding complacency in the chemical and process industries, applying knowledge to emerging industries, and ensuring lessons learned in the old industries are transferred to the new so that the same mistakes are not made again.

Resolutions and Other Decisions (resolutions 780-838) CRC Press

This volume tackles for the first time in decades the world's gas flaring practices, a difficult, hot-button issue of our time, whose consequences are only

just beginning to be understood. The book examines both the technical and environmental aspects of gas flaring, highlights different flare designs, and presents real-world case studies illustrating the proper use of gas flaring and how to avoid polluting flaring events. The only guide of its kind, this remarkable book can help professionals in the oil and gas industry take an important step toward reducing worldwide CO2 emissions.

Valve Selection Handbook Springer Nature

Well test planning is one of the most important phrases in the life cycle of a well, if done improperly it could cost millions. Now there is a reference to ensure you get it right the first time. Written by a Consultant Completions &

Well Test Engineer with decades of experience, Well Test Planning and Operations provides a road map to guide the reader through the maze of governmental regulations, industry codes, local standards and practices. This book describes how to plan a fit-for-purpose and fault free well test, and to produce the documents required for regulatory compliance. Given the level of activity in the oil and gas industry and the shortage of experienced personnel, this book will appeal to many specialists sitting in drilling, completion or exploration departments around the world who find themselves in the business of planning a well test, and yet who may lack expertise in that specialty. Nardone provides a roadmap to guide the planner through this complex

subject, showing how to write the necessary documentation and to coordinate the many different tasks and activities, which constitute well test planning. Taking the reader from the basis for design through the well Test program to well test reports and finally to the all-important learning to ensure continuous improvement. Identification and prioritization of well test objectives Confirmation of well test requirements Preparation of detailed well test programs Selection and qualification of test equipment Onsite (onshore and offshore) engineering support and test supervision Detailed well test interpretation Definition of Extended Well Test (EWT) requirements
Pipeline Rules of Thumb Handbook
 Elsevier

This book covers the fundamental requirements for air, soil and water pollution control in oil and gas refineries, chemical plants, oil terminals, petrochemical plants, and related facilities. In this concise volume, Dr. Bahadori elucidates design and operational considerations relevant to critical systems such as the waste water treatment units, solid waste disposal, and waste water sewer treatment as well as engineering/technological methods related to soil and air pollutions control. Engineers and technical managers in a range of industries will benefit from detail on a diverse list of topics.
Overpressure Protection in the Process Industry Elsevier
 Inherently safer plants begin with the initial design. Here is where integrity and

reliability can be built in at the lowest cost, and with maximum effectiveness. This book focuses on process safety issues in the design of chemical, petrochemical, and hydrocarbon processing facilities. It discusses how to select designs that can prevent or mitigate the release of flammable or toxic materials, which could lead to a fire, explosion, or environmental damage. All engineers on the design team, the process hazard analysis team, and those who make basic decisions on plant design, will benefit from its comprehensive coverage, its organization, and the extensive references to literature, codes, and standards that accompany each chapter.

A Critical View John Wiley & Sons
Modeling, Control, and Optimization of

Natural Gas Processing Plants presents the latest on the evolution of the natural gas industry, shining a light on the unique challenges plant managers and owners face when looking for ways to optimize plant performance and efficiency, including topics such as the various feed gas compositions, temperatures, pressures, and throughput capacities that keep them looking for better decision support tools. The book delivers the first reference focused strictly on the fast-growing natural gas markets. Whether you are trying to magnify your plants existing capabilities or are designing a new facility to handle more feedstock options, this reference guides you by combining modeling control and optimization strategies with the latest

developments within the natural gas industry, including the very latest in algorithms, software, and real-world case studies. Helps users adapt their natural gas plant quickly with optimization strategies and advanced control methods Presents real-world application for gas process operations with software and algorithm comparisons and practical case studies Provides coverage on multivariable control and optimization on existing equipment Allows plant managers and owners the tools they need to maximize the value of the natural gas produced Guidelines for Siting and Layout of Facilities John Wiley & Sons Lees' Loss Prevention in the Process Industries Hazard Identification, Assessment and Control Butterworth-

Heinemann

A Manual of Quick, Accurate Solutions to Everyday Pipeline Engineering Problems IChemE

The Instrument and Automation Engineers' Handbook (IAEH) is the #1 process automation handbook in the world. Volume one of the Fifth Edition, Measurement and Safety, covers safety sensors and the detectors of physical properties. Measurement and Safety is an invaluable resource that: Describes the detectors used in the measurement of process variables Offers application- and method-specific guidance for choosing the best measurement device Provides tables of detector capabilities and other practical information at a glance Contains detailed descriptions of domestic and overseas products, their

features, capabilities, and suppliers, including suppliers' web addresses Complete with 163 alphabetized chapters and a thorough index for quick access to specific information, Measurement and Safety 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. About the eBook The most important new feature of the IAEH, Fifth Edition is its availability as an eBook. The eBook provides the same content as the print edition, with the addition of thousands of web addresses so that readers can reach suppliers or reference books and articles on the hundreds of topics covered in the handbook. This feature includes a

complete bidders' list that allows readers to issue their specifications for competitive bids from any or all potential product suppliers.

Hydraulic Fracturing Operations John Wiley & Sons

"Written by engineers for engineers (with over 150 International Editorial Advisory Board members), this highly lauded resource provides up-to-the-minute information on the chemical processes, methods, practices, products, and standards in the chemical, and related, industries. "

Pressure Relief Devices John Wiley & Sons

Contains papers and posters presented at Hazards XVII.

Chemical Process Industry Safety,
1e Gulf Professional Publishing

This book provides the tools and techniques, management principles, procedures, concepts, and methods to ensure the successful completion of an oil and gas project while also ensuring the proper design, procurement, and construction for making the project most qualitative, competitive, and economical for safer operational optimized performance. It discusses quality during design, FEED, detailed engineering, selection of project teams, procurement procedure of EPC contract, managing quality during mobilization, procurement, execution, planning, scheduling, monitoring, control, quality, and testing to achieve the desired results for an oil and gas project. This book provides all the related information to professional practitioners, designers,

consultants, contractors, quality managers, project managers, construction managers, and academics/instructors involved in oil and gas projects and related industries. Features Provides information on the various quality tools used to manage construction projects from inception to handover Discusses the life cycle phases, developed on systems engineering approach, and how it is divided into manageable activity/element/components segments to manage and control the project Includes a wide range of tools, techniques, principles, and procedures used to address quality management Covers quality management systems and development of quality management systems manuals

Discusses quality and risk management, and health, safety, and environmental management during the design and construction process