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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

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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.

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Based on over 40 years of experience in the field, Ramesh Singh goes beyond corrosion control, providing techniques for addressing present and future integrity issues. Pipeline Integrity Handbook provides pipeline engineers with the tools to evaluate and inspect pipelines, safeguard the life cycle of their pipeline asset and ensure that they are optimizing delivery and capability. Presented in easy-to-use, step-by-step order, Pipeline Integrity Handbook is a quick reference for day-to-day use in identifying key pipeline degradation mechanisms and threats to pipeline integrity. The book begins with an overview of pipeline risk management and engineering assessment, including data collection and regulatory approaches to liquid pipeline risk management. Other critical integrity issues include: Pipeline defects and corrective actions Introduction to various essential pipeline material such as line pipes and valves Coverage on corrosion and corrosion protection Identifies the key pipeline degradation mechanisms and threats to pipeline integrity Appreciates various corrosion monitoring and control tools and techniques Understands the principles of risk assessment and be able to conduct a simple risk assessment Develops simple Pipeline Integrity Management plans Selects and apply appropriate inspection and assessment criteria for pipeline defects Recommends appropriate repair methods for pipeline defects

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Each issue includes also final data for preceding month.

Learn how to access analytics from SAS Cloud Analytic Services (CAS) using R and the SAS Viya platform. SAS Viya : The R Perspective is a general-purpose introduction to using R with the SAS Viya platform. SAS Viya is a high-performance, fault-tolerant analytics architecture that can be deployed on both public and private cloud infrastructures. This book introduces an entirely new way of using SAS statistics from R, taking users step-by-step from installation and fundamentals to data exploration and modeling. SAS Viya is made up of multiple components. The central piece of this ecosystem is SAS Cloud Analytic Services (CAS). CAS is the cloud-based server that all clients communicate with to run analytical methods. While SAS Viya can be used by various SAS applications, it also enables you to access analytic methods from SAS, R, Python, Lua, and Java, as well as through a REST interface using HTTP or HTTPS. The R client is used to drive the CAS component directly using commands and actions that are familiar to R programmers. Key features of this book include: Connecting to CAS from R Loading, managing, and exploring CAS Data from R Executing CAS actions and processing the results Handling CAS action errors Modeling continuous and categorical data This book is intended for R users who want to access SAS analytics as well as SAS users who are interested in trying R.

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Familiarity with R would be helpful before using this book although knowledge of CAS is not required. However, you will need to have a CAS server set up and running to execute the examples in this book.

Handbook of Engineering Practice of Materials and Corrosion Springer Nature  
From bestselling author David Nasaw, a sweeping new history of the one million refugees left behind in Germany after WWII In May 1945, after German forces surrendered to the Allied powers, millions of concentration camp survivors, POWs, slave laborers, political prisoners, and Nazi collaborators were left behind in Germany, a nation in ruins. British and American soldiers attempted to repatriate the refugees, but more than a million displaced persons remained in Germany: Jews, Poles, Estonians, Latvians, Lithuanians, Ukrainians, and other Eastern Europeans who refused to go home or had no homes to return to. Most would eventually be resettled in lands suffering from postwar labor shortages, but no nation, including the United States, was willing to accept more than a handful of the 200,000 to 250,000 Jewish men, women, and children who remained trapped in Germany. When in June, 1948, the United States Congress passed legislation permitting the immigration of displaced persons, visas were granted to sizable numbers of war criminals and Nazi collaborators, but denied to 90% of the Jewish displaced persons. A masterwork from acclaimed historian David Nasaw, *The Last Million* tells the gripping but until now hidden story of postwar displacement and statelessness and of the Last Million, as they crossed from a broken

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past into an unknowable future, carrying with them their wounds, their fears, their hope, and their secrets. Here for the first time, Nasaw illuminates their incredible history and shows us how it is our history as well.

IBM® Content Navigator provides a unified user interface for your Enterprise Content Management (ECM) solutions. It also provides a robust development platform so you can build customized user interface and applications to deliver value and an intelligent, business-centric experience. This IBM Redbooks® publication guides you through the Content Navigator platform, its architecture, and the available programming interfaces. It describes how you can configure and customize the user interface with the administration tools provided, and how you can customize and extend Content Navigator using available development options with sample code. Specifically, the book shows how to set up a development environment, and develop plug-ins that add an action, service, and feature to the user interface. Customization topics include implementing request and response filters, external data services (EDS), creating custom step processors, and using Content Navigator widgets in other applications. This book also covers mobile development, viewer customization, component deployment, and debugging and troubleshooting. This book is intended for IT architects, application designers and developers working with IBM Content Navigator and IBM ECM products. It offers a high-level description of how to extend and customize IBM Content Navigator and also more technical details of how to do

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implementations with sample code.

Describes how to pick a group of stocks of highly steady, moderate growth companies that offer consistent returns at a minimal risk

Pharmaceutical and clinical calculations are critical to the delivery of safe, effective, and competent patient care and professional practice. *Pharmaceutical and Clinical Calculations, Second Edition* addresses this crucial component, while emphasizing contemporary pharmacy practices. Presenting the information in a well-organized and easy-to-understand manner, the authors explain the principles of clinical calculations involving dose and dosing regimens in patients with impaired organ functions, aminoglycoside therapy, pediatric and geriatric dosing, and radiopharmaceuticals with appropriate examples. Each chapter begins with an introduction to the topic, followed by a comprehensive discussion. Key concepts are highlighted throughout the book for easy retrieval. The examples presented in the text reflect the practice environment in community, hospital, and nuclear pharmacy settings, and the clinical problems presented reflect a direct application of underlying theoretical principles and discussions. *Pharmaceutical and Clinical Calculations, Second Edition* is an essential tool for any practitioner who needs to reinforce their knowledge of the subject and is a valuable study guide for the Pharmacy Board examination.

*Backpacker* brings the outdoors straight to the reader's doorstep, inspiring and enabling them to go more places and enjoy nature more often. The authority on active

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adventure, Backpacker is the world's first GPS-enabled magazine, and the only magazine whose editors personally test the hiking trails, camping gear, and survival tips they publish. Backpacker's Editors' Choice Awards, an industry honor recognizing design, feature and product innovation, has become the gold standard against which all other outdoor-industry awards are measured.

Written for engineers, operators, and maintenance technicians in the power generation, oil, chemical, paper and other processing industries, The Valve Primer provides a basic knowledge of valve types and designs, materials used to make valves, where various designs should and should not be used, factors to consider in specifying a valve for a specific application, how to calculate flow through valves, and valve maintenance and repair. If you are involved in valve selection, specification, procurement, inspection, troubleshooting or repair, you will find a wealth of information in The Valve Primer. Presents information on a wide variety of valves and explains the operational basics of the thousands of valves that are found in power stations, refineries, plants and mills throughout the world. Includes over fifty illustrations depicting various valve types and how they operate. Contains valuable information the cannot be found in any other single source.

Tell your story and show it with data, using free and easy-to-learn tools on the web. This introductory book teaches you how to design interactive charts and customized maps for your website, beginning with simple drag-and-drop tools such as Google Sheets, Datawrapper, and Tableau Public. You'll also gradually learn how to edit open source code templates like Chart.js, Highcharts, and Leaflet on GitHub. Hands-On Data Visualization takes you step-by-

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step through tutorials, real-world examples, and online resources. This practical guide is ideal for students, nonprofit organizations, small business owners, local governments, journalists, academics, and anyone who wants to take data out of spreadsheets and turn it into lively interactive stories. No coding experience is required. Build interactive charts and maps and embed them in your website Understand the principles for designing effective charts and maps Learn key data visualization concepts to help you choose the right tools Convert and transform tabular and spatial data to tell your data story Edit and host Chart.js, Highcharts, and Leaflet map code templates on GitHub Learn how to detect bias in charts and maps produced by others

Control valves are imperative elements in any system where fluid flow must be monitored and manipulated. A complete control valve is made of the valve itself, an actuator, and, if necessary, a valve control device. The actuator is what provides the required force to cause the closing part of the valve to move and the valve control devices keep the valves in the proper operating conditions; they can ensure appropriate position, interpret signals, and manipulate responses. Selection of the proper valve involves a thorough knowledge of the process for which it will be used. When implementing a control valve into a process, one must consider not only the appropriate type of valve and its material of construction, but also the correct sizing to ensure it performs its designated task without any adverse occurrences in the system. This 4-hour quick book provides an overview of control valve with emphasis on the sizing and selection. This course is for mechanical, instrumentation and process engineers involved in sizing, selecting and applying process control valves. No specific prerequisite training or experience is required. Learning Objective At the conclusion of this course, the

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reader will:

- Differentiate between various types of valves and the benefits of each;
- Understand the operation of control valve in a control loop;
- Understand how to evaluate and apply actuators and positioners for specific applications;
- Understand the basic hydraulics and the relationship between the Cv, flow rate and pressure drop;
- Understand how to size valves for any flow condition likely to be found in a process plant;
- Understand how to select the proper valve characteristic for a given process;
- Understand how the installed characteristics can match closely to the inherent characteristics;
- Understand the methods to address system performance issues such as cavitation, flashing and chocked conditions;
- Understand the factors influencing the selection of control valves.

Industries that use pumps, seals and pipes will also use valves and actuators in their systems. This key reference provides anyone who designs, uses, specifies or maintains valves and valve systems with all of the critical design, specification, performance and operational information they need for the job in hand. Brian Nesbitt is a well-known consultant with a considerable publishing record. A lifetime of experience backs up the huge amount of practical detail in this volume. \* Valves and actuators are widely used across industry and this dedicated reference provides all the information plant designers, specifiers or those involved with maintenance require \* Practical approach backed up with technical detail and engineering know-how makes this the ideal single volume reference \* Compares and contracts valve and actuator types to ensure the right equipment is chosen for the right application and properly maintained

This comprehensive reference guide offers useful pointers for advanced use of SQL and describes the bugs and workarounds involved in compiling MySQL for every system.

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bookdown: Authoring Books and Technical Documents with R Markdown presents a much easier way to write books and technical publications than traditional tools such as LaTeX and Word. The bookdown package inherits the simplicity of syntax and flexibility for data analysis from R Markdown, and extends R Markdown for technical writing, so that you can make better use of document elements such as figures, tables, equations, theorems, citations, and references. Similar to LaTeX, you can number and cross-reference these elements with bookdown. Your document can even include live examples so readers can interact with them while reading the book. The book can be rendered to multiple output formats, including LaTeX/PDF, HTML, EPUB, and Word, thus making it easy to put your documents online. The style and theme of these output formats can be customized. We used books and R primarily for examples in this book, but bookdown is not only for books or R. Most features introduced in this book also apply to other types of publications: journal papers, reports, dissertations, course handouts, study notes, and even novels. You do not have to use R, either. Other choices of computing languages include Python, C, C++, SQL, Bash, Stan, JavaScript, and so on, although R is best supported. You can also leave out computing, for example, to write a fiction. This book itself is an example of publishing with bookdown and R Markdown, and its source is fully available on GitHub.

Take the guesswork out of using regular expressions. With more than 140 practical recipes, this cookbook provides everything you need to solve a wide range of real-world problems. Novices will learn basic skills and tools, and programmers and experienced users will find a wealth of detail. Each recipe provides samples you can use right away. This revised edition covers the regular expression flavors used by C#, Java, JavaScript, Perl, PHP, Python, Ruby,

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and VB.NET. You'll learn powerful new tricks, avoid flavor-specific gotchas, and save valuable time with this huge library of practical solutions. Learn regular expressions basics through a detailed tutorial Use code listings to implement regular expressions with your language of choice Understand how regular expressions differ from language to language Handle common user input with recipes for validation and formatting Find and manipulate words, special characters, and lines of text Detect integers, floating-point numbers, and other numerical formats Parse source code and process log files Use regular expressions in URLs, paths, and IP addresses Manipulate HTML, XML, and data exchange formats Discover little-known regular expression tricks and techniques

Written for the piping engineer and designer in the field, this two-part series helps to fill a void in piping literature, since the Rip Weaver books of the '90s were taken out of print at the advent of the Computer Aid Design (CAD) era. Technology may have changed, however the fundamentals of piping rules still apply in the digital representation of process piping systems. The Fundamentals of Piping Design is an introduction to the design of piping systems, various processes and the layout of pipe work connecting the major items of equipment for the new hire, the engineering student and the veteran engineer needing a reference.

An award-winning journalist's dramatic account of a shooting that shook a community to its core, with important implications for the future On the last evening of summer in 2013, five shots rang out in a part of northeast Denver known as the Holly. Long a destination for African American families fleeing the Jim Crow South, the area had become an "invisible city" within a historically white metropolis. While shootings there weren't uncommon, the identity of the shooter that night came as a shock. Terrance Roberts was a revered anti-gang activist. His

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attempts to bring peace to his community had won the accolades of both his neighbors and the state's most important power brokers. Why had he just fired a gun? In *The Holly*, the award-winning Denver-based journalist Julian Rubinstein reconstructs the events that left a local gang member paralyzed and Roberts facing the possibility of life in prison. Much more than a crime story, *The Holly* is a multigenerational saga of race and politics that runs from the civil rights movement to Black Lives Matter. With a cast that includes billionaires, elected officials, cops, developers, and street kids, the book explores the porous boundaries between a city's elites and its most disadvantaged citizens. It also probes the fraught relationships between police, confidential informants, activists, gang members, and ex-gang members as they struggle to put their pasts behind them. In *The Holly*, we see how well-intentioned efforts to curb violence and improve neighborhoods can go badly awry, and we track the interactions of law enforcement with gang members who conceive of themselves as defenders of a neighborhood. When Roberts goes on trial, the city's fault lines are fully exposed. In a time of national reckoning over race, policing, and the uses and abuses of power, Rubinstein offers a dramatic and humane illumination of what's at stake.

Pipeline engineers, operators, and plant managers are responsible for the safety of pipelines, facilities, and staying on top of regulatory compliance and maintenance. However, they frequently need reference materials to support their decision, and many new pipeline engineers and plant managers are responsible for major repairs and decisions yet do not have the proper reference to set a holistic integrity plan in place. *Pipeline Integrity, 2nd Edition* delivers necessary pipeline inspection methods, identification of hazard mechanisms, risk and consequence evaluations, and repair strategies. Covering relevant standards and processes

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for risk, assessment, and integrity management, this go-to reference provides the principles that guide these concepts enhanced with more critical regulatory information and easier organization between liquid and gas pipelines. More detailed information is provided on asset reliability, including risk-based inspection and other inspection prioritizing tools such as value-driven maintenance and evidence-based asset management. Pipeline Integrity, 2nd Edition continues to provide engineers and plants managers a vital resource for keeping their pipelines and facilities safe and efficient. Set an integrity management plan and safe assessment program while properly characterizing impact of risk Get updated with new information on corrosion control, gas and liquid hydrocarbon transportation risk management and asset integrity management Understand and apply all the latest and critical oil and gas pipeline standards, both U.S. and international-based

This handbook is an in-depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries. The book covers materials, corrosion, welding, heat treatment, coating, test and inspection, and mechanical design and integrity. A central focus is placed on industrial requirements, including codes, standards, regulations, and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility. The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage, and offers readers industry-tested best practices, rationales, and case studies.

A Practical Guide to Piping and Valves for the Oil and Gas Industry covers how to

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select, test and maintain the right oil and gas valve. Each chapter focuses on a specific type of valve with a built-in structured table on valve selection. Covering both onshore and offshore projects, the book also gives an introduction to the most common types of corrosion in the oil and gas industry, including CO<sub>2</sub>, H<sub>2</sub>S, pitting, crevice, and more. A model to evaluate CO<sub>2</sub> corrosion rate on carbon steel piping is introduced, along with discussions on bulk piping components, including fittings, gaskets, piping and flanges. Rounding out with chapters devoted to valve preservation to protect against harmful environments and factory acceptance testing, this book gives engineers and managers a much-needed tool to better understand today's valve technology. Presents oil and gas examples and challenges relating to valves, including many illustrations from valves in different stages of projects Helps readers understand valve materials, testing, actuation, packing and preservation, also including a new model to evaluate CO<sub>2</sub> corrosion rates on carbon steel piping Presents structured valve selection tables in each chapter to help readers pick the right valve for the right project

Five years in the writing by one of science fiction's most honored authors, *Doomsday Book* is a storytelling triumph. Connie Willis draws upon her understanding of the universalities of human nature to explore the ageless issues of evil, suffering and the indomitable will of the human spirit. For Kivrin, preparing an on-site study of one of the deadliest eras in humanity's history was as simple as receiving inoculations against the diseases of the fourteenth century and inventing an alibi for a woman traveling alone.

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For her instructors in the twenty-first century, it meant painstaking calculations and careful monitoring of the rendezvous location where Kivrin would be received. But a crisis strangely linking past and future strands Kivrin in a bygone age as her fellows try desperately to rescue her. In a time of superstition and fear, Kivrin—barely of age herself—finds she has become an unlikely angel of hope during one of history's darkest hours. Praise for *Doomsday Book* “A stunning novel that encompasses both suffering and hope. . . . The best work yet from one of science fiction’s best writers.”—The Denver Post “Splendid work—brutal, gripping and genuinely harrowing, the product of diligent research, fine writing and well-honed instincts, that should appeal far beyond the normal science-fiction constituency.”—Kirkus Reviews (starred review) “The world of 1348 burns in the mind’s eye, and every character alive that year is a fully recognized being. . . . It becomes possible to feel . . . that Connie Willis did, in fact, over the five years *Doomsday Book* took her to write, open a window to another world, and that she saw something there.”—The Washington Post Book World

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