

Api 674 Latest Edition

A reference for the chemical engineer on the application, selection, construction, procurement, installation, operation, and maintenance of the three basic types of pumps used in chemical processing: centrifugal, rotary, and reciprocating. Emphasizes aspects that cause practical operating problems,

This chapter introduces the reader to the fundamentals of field implementation for chemical EOR projects. Chemical handling, processing, and injection schemes are discussed and current-day facilities and equipment systems are shown from actual projects. Design requirements for processing polymer, alkaline agents, and surfactants provide the reader with an understanding of special considerations for facility process flow design, materials of construction, project logistics, and daily operations. Useful spreadsheets for calculating chemical consumption rates and polymer system design basics are shown. Basic water quality issues are introduced for polymer, surfactant-polymer, alkaline-polymer, and alkaline-surfactant-polymer projects.

Front Cover; Practical Introduction to Pumping Technology; Copyright Page; Chapter 1. Parameters; Chapter 2. Pump Calculations; Chapter 3. Required Data for Specifying Pumps; Chapter 4. Pump Types; Chapter 5. Specifications; Chapter 6. Pump Curves; Chapter 7. Effects of Viscosity on Pump Performance; Chapter 8. Vibration; Chapter 9. Net Positive Suction Head (NPSH); Chapter 10. Pump Shaft Sealing; Chapter 11. Pump Bearings; Chapter 12. Metallurgy; Chapter 13. Pump Drivers; Chapter 14. Gears; Chapter 15. Couplings; Chapter 16. Pump Controls; Chapter 17. Instrumentation.

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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

This book is a "no nonsense" guide to the principle intentions of the codes or standards and provides advice on compliance. After using this book the reader should come away with a clear understanding of how piping systems fail and what the code requires the designer, manufacturer, fabricator, supplier, erector, examiner, inspector, and owner to do to prevent such failures. The focus of the book is to enhance participants' understanding and application of the spirit of the code or standard and form a plan for compliance. The book is enhanced by a multitude of calculations to assist in problem solving, directly applying the rules and equations for specific design and operating conditions to illustrate correct applications. Each calculation is based on a specific code. Written by a professional/educator with over 35 years of experience Covers all major codes and standards Demonstrates how the code and standard has been correctly and incorrectly applied

"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

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processes, methods, practices, products, and standards in the chemical, and related, industries. "

This book is an update and expansion of topics covered in Guidelines for Mechanical Integrity Systems (2006). The new book is consistent with Risk-Based Process Safety and Life Cycle approaches and includes details on failure modes and mechanisms. Also, example testing an inspection programs is included for various types of equipment and systems. Guidance and examples are provided for selecting and maintaining critical safety systems.

Server Sprawl and escalating IT costs have managers and system administrators scrambling to find ways to cut costs and reduce Total Cost of Ownership of their physical infrastructure. Combining software applications onto a single server, even if those applications are from the same software vendor, can be dangerous and problems hard to troubleshoot. Virtualization allows you to consolidate many servers onto a single physical server reducing hardware, electrical, cooling, and administrative costs. These virtual servers run completely independent of each other so if one crashes the other are not affected. Planning and implementing a server consolidation is a complex process. This book details the requirements for such a project, includes sample forms and templates, and delivers several physical to virtual migration strategies which will save both time and costs. Readers of this book will easily be able to plan and deploy VMware, Microsoft Virtual Server, and Xen. Create a virtual network to exchange information or provide a service to other virtual machines or computers Use virtualization to support removable media such as CD or DVD optical disks Reduce

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server costs, administration overhead, and complexity

Process Plant Layout, Second Edition, explains the methodologies used by professional designers to layout process equipment and pipework, plots, plants, sites, and their corresponding environmental features in a safe, economical way. It is supported with tables of separation distances, rules of thumb, and codes of practice and standards. The book includes more than seventy-five case studies on what can go wrong when layout is not properly considered. Sean Moran has thoroughly rewritten and re-illustrated this book to reflect advances in technology and best practices, for example, changes in how designers balance layout density with cost, operability, and safety considerations. The content covers the 'why' underlying process design company guidelines, providing a firm foundation for career growth for process design engineers. It is ideal for process plant designers in contracting, consultancy, and for operating companies at all stages of their careers, and is also of importance for operations and maintenance staff involved with a new build, guiding them through plot plan reviews. Based on interviews with over 200 professional process plant designers

Explains multiple plant layout methodologies used by professional process engineers, piping engineers, and process architects Includes advice on how to choose and use the latest CAD tools for plant layout Ensures that all methodologies integrate to comply with worldwide risk management legislation

This book outlines the normal process design procedure for definition of pump

parameters along with some guidelines and specific criteria for development of pump sizing by the Process Engineer. It covers the main features of the design of pumping systems which utilize centrifugal or positive displacement pumps. Similarly, effort has been taken to include salient points and information for knowledge augmentation and usage in engineering by the process engineers.

Through a series of recent breakthroughs, deep learning has boosted the entire field of machine learning. Now, even programmers who know close to nothing about this technology can use simple, efficient tools to implement programs capable of learning from data. This practical book shows you how. By using concrete examples, minimal theory, and two production-ready Python frameworks—Scikit-Learn and TensorFlow—author Aurélien Géron helps you gain an intuitive understanding of the concepts and tools for building intelligent systems. You'll learn a range of techniques, starting with simple linear regression and progressing to deep neural networks. With exercises in each chapter to help you apply what you've learned, all you need is programming experience to get started. Explore the machine learning landscape, particularly neural nets Use Scikit-Learn to track an example machine-learning project end-to-end Explore several training models, including support vector machines, decision trees, random forests, and ensemble methods Use the TensorFlow library to build and train neural nets Dive into neural net architectures, including convolutional nets, recurrent nets, and deep reinforcement learning Learn techniques for training and

scaling deep neural nets

Written by a lead writer on the Swing team and bestselling author of "The Java Tutorial," this guidebook--now fully updated and revised--provides a hard copy of Sun's popular online tutorial for JFC/Swing development. Its numerous code examples and clear presentation style make this book a fine choice for mastering the ins and outs of JFC and Swing.

While forensic analysis has proven to be a valuable investigative tool in the field of computer security, utilizing anti-forensic technology makes it possible to maintain a covert operational foothold for extended periods, even in a high-security environment. Adopting an approach that favors full disclosure, the updated Second Edition of The Rootkit Arsenal presents the most accessible, timely, and complete coverage of forensic countermeasures. This book covers more topics, in greater depth, than any other currently available. In doing so the author forges through the murky back alleys of the Internet, shedding light on material that has traditionally been poorly documented, partially documented, or intentionally undocumented. The range of topics presented includes how to: -Evade post-mortem analysis -Frustrate attempts to reverse engineer your command & control modules -Defeat live incident response -Undermine the process of memory analysis -Modify subsystem internals to feed misinformation to the outside -Entrench your code in fortified regions of execution -Design and implement covert channels -Unearth new avenues of attack

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A definitive guide to Java's most powerful features for enterprise and desktop application development.

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 Leverage Natural Language Processing (NLP) in Python and learn how to set up your

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own robust environment for performing text analytics. This second edition has gone through a major revamp and introduces several significant changes and new topics based on the recent trends in NLP. You'll see how to use the latest state-of-the-art frameworks in NLP, coupled with machine learning and deep learning models for supervised sentiment analysis powered by Python to solve actual case studies. Start by reviewing Python for NLP fundamentals on strings and text data and move on to engineering representation methods for text data, including both traditional statistical models and newer deep learning-based embedding models. Improved techniques and new methods around parsing and processing text are discussed as well. Text summarization and topic models have been overhauled so the book showcases how to build, tune, and interpret topic models in the context of an interest dataset on NIPS conference papers. Additionally, the book covers text similarity techniques with a real-world example of movie recommenders, along with sentiment analysis using supervised and unsupervised techniques. There is also a chapter dedicated to semantic analysis where you'll see how to build your own named entity recognition (NER) system from scratch. While the overall structure of the book remains the same, the entire code base, modules, and chapters has been updated to the latest Python 3.x release. What You'll Learn • Understand NLP and text syntax, semantics and structure • Discover text cleaning and feature engineering • Review text classification and text clustering • Assess text summarization and topic models • Study deep learning for NLP Who This

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Book Is For IT professionals, data analysts, developers, linguistic experts, data scientists and engineers and basically anyone with a keen interest in linguistics, analytics and generating insights from textual data.

An overview of the programming language's fundamentals covers syntax, initialization, implementation, classes, error handling, objects, applets, multiple threads, projects, and network programming.

Offshore Safety Management, Second Edition provides an experienced engineer's perspective on the new Safety and Environmental System (SEMS) regulations for offshore oil and gas drilling, how they compare to prior regulations, and how to implement the new standards seamlessly and efficiently. The second edition is greatly expanded, with increased coverage of technical areas such as engineering standards and drilling, and procedural areas such as safety cases and formal safety assessments. The new material both complements the SEMS coverage and increases the book's relevance to a global audience. Following the explosion, fire, and sinking of the Deepwater Horizon floating drilling rig in April 2010, the Bureau of Ocean Energy Management, Regulations, and Enforcement (BOEMRE) issued many new regulations. One of them was the Safety and Environmental System rule, which is based on the American Petroleum Institute's SEMP recommended practice, finalized in April 2013. Author Ian Sutton explains the SEMS rule, and describes what must be done to achieve compliance. Each of the twelve elements of the SEMS rule (such as Management of

Change and Safe Work Practices) is described in the book, and guidance is provided on how to meet BOEMRE requirements. Detailed explanation of how to implement the new SEMS standard for offshore operations Ties the new regulations in with existing safety management approaches, helping managers leverage existing processes and paperwork With CEOs now signing off on compliance paperwork, this book provides expert insights so you can get SEMS compliance right the first time

This one-stop reference systematically covers key aspects in early drug development that are directly relevant to the discovery phase and are required for first-in-human studies. Its broad scope brings together critical knowledge from many disciplines, ranging from process technology to pharmacology to intellectual property issues. After introducing the overall early development workflow, the critical steps of early drug development are described in a sequential and enabling order: the availability of the drug substance and that of the drug product, the prediction of pharmacokinetics and -dynamics, as well as that of drug safety. The final section focuses on intellectual property aspects during early clinical development. The emphasis throughout is on recent case studies to exemplify salient points, resulting in an abundance of practice-oriented information that is usually not available from other sources. Aimed at medicinal chemists in industry as well as academia, this invaluable reference enables readers to understand and navigate the challenges in developing clinical candidate molecules that can be successfully used in phase one clinical trials.

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LINQ is the part of the .NET Framework that provides a generic approach to querying data from different data sources. It has quickly become the next must-have skill for .NET developers. Pro LINQ: Language Integrated Query in C# 2010 is all about code. Literally, this book starts with code and ends with code. Most books show the simplest examples of how to use a method, but they so rarely show how to use the more complex prototypes. This book is different. Demonstrating the overwhelming majority of LINQ operators and prototypes, it is a veritable treasury of LINQ examples. Rather than obscure the relevant LINQ principles in code examples by focusing on a demonstration application you have no interest in writing, this book cuts right to the chase of each LINQ operator, method, or class. However, where complexity is necessary to truly demonstrate an issue, the examples are right there in the thick of it. For example, code samples demonstrating how to handle concurrency conflicts actually create concurrency conflicts so you can step through the code and see them unfold. Face it, most technical books, while informative, are dull. LINQ need not be dull. Written with a sense of humor, this book will attempt to entertain you on your journey through the wonderland of LINQ and C# 2010.

The JavaScript Workshop is a definitive guide to learning JavaScript in a practical way. Starting with JavaScript's core syntax and structure, the book gradually builds up to more advanced concepts like server-side development and functional programming. With this book, you'll gain the confidence to tackle any real-world JavaScript challenge.

Familiarizes the student or an engineer new to process safety with the concept of process safety management Serves as a comprehensive reference for Process Safety topics for student chemical engineers and newly graduate engineers Acts as a reference material for either a stand-alone process safety course or as supplemental materials for existing curricula Includes the evaluation of SACHE courses for application of process safety principles throughout the standard Ch.E. curricula in addition to, or as an alternative to, adding a new specific process safety course Gives examples of process safety in design

For over thirty years, the Surface Production Operations Series has taken the guess work out of the design, selection, installation, operation, testing, and troubleshooting of surface production equipment. The fourth volume in this series, Pumps and Compressors is directed to both entry-level personnel and practicing professionals looking for an up-to-date reference book on managing, evaluating, sizing, selecting, installing, operating and maintaining pump and compressor systems. Packed with examples drawn from years of design and field experience, this reference features many charts, tables, equations, diagrams, and photographs to illustrate the basic applications including pump hydraulics, centrifugal and reciprocating compressor applications, compressor performance maps, pump performance curves, pump and compressor testing

and installation, and many more critical topics. Packed with practical solutions Surface Production Operations: Pumps and Compressors delivers an essential design and specification reference for today's engineers. Covers application and performance considerations for all types of pumps and compressors Delivers hands-on manual for applying mechanical and physical principles to select and design pump and compressor systems, supported by many tables and diagrams Gives expert advice on how to apply design codes and standards such as API 610, API 674, ANSI B78.1, API 617, API 11P, API RP 14C and the Hydraulic Institute

Fluid movers are extensively used in the process industries. New machines are specified, designed, manufactured and installed in a way that ensures their safety and reliability. Existing machines may be upgraded or retrofitted during maintenance or repair. This book describes how improved components and better lubricant application provisions, among other experience-based measures, can safely extend operating life and increase profitability.

When Lucene first hit the scene five years ago, it was nothing short of amazing. By using this open-source, highly scalable, super-fast search engine, developers could integrate search into applications quickly and efficiently. A lot has changed since then-search has grown from a "nice-to-have" feature into an indispensable

part of most enterprise applications. Lucene now powers search in diverse companies including Akamai, Netflix, LinkedIn, Technorati, HotJobs, Epiphany, FedEx, Mayo Clinic, MIT, New Scientist Magazine, and many others. Some things remain the same, though. Lucene still delivers high-performance search features in a disarmingly easy-to-use API. Due to its vibrant and diverse open-source community of developers and users, Lucene is relentlessly improving, with evolutions to APIs, significant new features such as payloads, and a huge increase (as much as 8x) in indexing speed with Lucene 2.3. And with clear writing, reusable examples, and unmatched advice on best practices, Lucene in Action, Second Edition is still the definitive guide to developing with Lucene. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

This collection of papers from a prestigious IMechE conference looks at the latest innovations and techniques from experts in the field of rotating machinery from industry and academia. Reflecting latest developments in air, gas, refrigeration and related systems, these conference transactions will be of vital importance to all those equipment manufacturers, suppliers, users, and research organizations who wish to be well informed of developments and advances in this important field of engineering. Topics covered: Scroll Compressors Refrigeration

Environmental Issues Screw Compressors Reciprocating Compressors Expanders Centrifugal Compressors Novel Designs Linear Compressors Numerical Modelling Operation and Maintenance

"Fitness, money, and wisdom--here are the tools. Over the last two years ... Tim Ferriss has collected the routines and tools of world-class performers around the globe. Now, the distilled notebook of tips and tricks that helped him double his income, flexibility, happiness, and more is available as Tools of Titans"--Page 4 of cover.

MRI has emerged as a powerful way of studying in-vivo brain structure and function in both healthy and disease states. Whilst new researchers may be able to call upon advice and support for acquisition from operators, radiologists and technicians, it is more challenging to obtain an understanding of the principles of analysing neuroimaging data. This is crucial for choosing acquisition parameters, designing and performing appropriate experiments, and correctly interpreting the results. This primer gives a general and accessible introduction to the wide array of MRI-based neuroimaging methods that are used in research. Supplemented with online datasets and examples to enable the reader to obtain hands-on experience working with real data, it provides a practical and approachable introduction for those new to the neuroimaging field. The text also

covers the fundamentals of what different MRI modalities measure, what artifacts commonly occur, the essentials of the analysis, and common "pipelines" including brain extraction, registration and segmentation. As it does not require any background knowledge beyond high-school mathematics and physics, this primer is essential reading for anyone wanting to work in neuroimaging or grasp the results coming from this rapidly expanding field. The Oxford Neuroimaging Primers are short texts aimed at new researchers or advanced undergraduates from the biological, medical or physical sciences. They are intended to provide a broad understanding of the ways in which neuroimaging data can be analyzed and how that relates to acquisition and interpretation. Each primer has been written so that it is a stand-alone introduction to a particular area of neuroimaging, and the primers also work together to provide a comprehensive foundation for this increasingly influential field.

Ancillary Equipment and Electrical Equipment is a component of Encyclopedia of Water Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The volume presents state-of-the art subject matter of various aspects of Ancillary Equipment And Electrical Equipment such as: Seawater Supply Pump; Cooling Water Recirculation Pump; Brine Recirculation Pump; Brine Blowdown Pump;

Brine Heater Condensate Pump; Minor Pumps For Desalination Plants; The Installation Criteria And The Layout; Hydraulic Aspects In Design And Operation Of Axial-Flow Pumps; Description Of Surface Vortices With Regard To Common Design Criteria Of Intake Chambers; Vacuum Creating Equipment; Filtering Equipment; Chemical Dosing Stations; On-Load Sponge Ball Cleaning System; Power Supply Systems And Electrical Equipment For Desalination Plants; Composite Materials For Pressure Vessels And Pipes; Thermal Stresses In Vessels, Piping, And Components; Pressure Vessels And Piping Systems: Reliability, Risk And Safety Assessment; Pressure Vessels And Shell Structures; Pipeline Operations; Steel And Pipe Mill Technology; Pipeline Structural Integrity; Pipeline System Automation And Control; Pump And Compressor Operation; Environmental Conservation Practices For Pipelines. This volume is aimed at the following five major target audiences: University and College Students Educators, Professional Practitioners, Research Personnel and Policy and Decision Makers

In recent years, process safety management system compliance audits have revealed that organizations often have significant opportunities for improving their Mechanical Integrity programs. As part of the Center for Chemical Process Safety's Guidelines series, Guidelines for Mechanical Integrity Systems provides practitioners a basic familiarity of mechanical integrity concepts and best practices. The book recommends efficient approaches for establishing a successful MI program.

Learn Java, Android, and app development concepts easily with this updated third

edition of Android Programming for Beginners. Whether you want to become a professional Android developer or just want to have fun learning Java and Android, this Android Java programming book is what you need.

Death and destruction are unavoidable effects of war and combat situations. The fact that people have been killed or injured or property has been destroyed should not encourage anyone to rush to the conclusion that war crimes have been committed. On the contrary, before reaching such a conclusion, it is necessary to carefully analyze the conduct of the person causing death, injury or damage in order to ascertain whether such conduct is consistent with international humanitarian law. Technology, law and public opinion on what is acceptable has greatly evolved since World War II. The issue of civilian damage caused in combat operations has become an important topic in public opinion since Operation Desert Storm in 1991. Public pressure to limit incidental civilian damage has notably increased following the NATO aerial campaign in Kosovo in 1999 and the subsequent conflicts in Afghanistan in 2001, Iraq in 2003 and Lebanon 2006. *Unlawful Attacks in Combat Situations* focuses on the manner in which unlawful attacks launched during the conduct of hostilities have been dealt with in the Rome Statute of the International Criminal Court, the international treaty which, to date, deals most comprehensively with war crimes committed in international and non-international armed conflicts, and in the case law of the International Criminal Tribunal for the Former Yugoslavia, the first international judicial body that has investigated and

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prosecuted crimes committed during the conduct of hostilities since World War II.
Positive Displacement Pumps API Standard 674. Reciprocating Practical Introduction to
Pumping Technology Gulf Professional Publishing
Direct from the most respected authorities on Excel, this book will be the definitive
guide to developing applications with Microsoft Excel.
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