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Chemical Process Equipment - Selection and Design (Revised 2nd Edition)
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 Object-oriented Software Engineering
 Designing and Optimizing System Software
 Virtualization Essentials
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 16 Steps to Product and Process Improvement
 Computer Architecture
 Embedded Systems Architecture
 Parallel Computer Architecture
 A Problem-Solution Approach
 Design of Experiments Using The Taguchi Approach
 Practical Performant Programming for Humans
 Firewalls For Dummies
 Membrane Gas Separation
 Computer Organization & Architecture 7e
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 Building Embedded Linux Systems
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 Development Best Practices for the Internet of Things
 ARM System Developer's Guide
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SCHWARTZ JOVANI

Chemical Process Equipment - Selection and Design (Revised 2nd Edition) Pearson Education India
 Fulfill the practical potential of DOE-with a powerful, 16-step approach for applying the Taguchi method Over the past decade, Design of Experiments (DOE) has undergone great advances through the work of the Japanese management guru Genechi Taguchi. Yet, until now, books on the Taguchi method have been steeped in theory and complicated statistical analysis. Now this trailblazing work translates the Taguchi method into an easy-to-implement 16-step system. Based on Ranjit Roy's successful Taguchi training course, this extensively illustrated

book/CD-ROM package gives readers the knowledge and skills necessary to understand and apply the Taguchi method to engineering projects-from theory and applications to hands-on analysis of the data. It is suitable for managers and technicians without a college-level engineering or statistical background, and its self-study pace-with exercises included in each chapter-helps readers start using Taguchi DOE tools on the job quickly. Special features include: * An accompanying CD-ROM of Qualitek-4 software, which performs calculations and features all example experiments described in the book * Problem-solving exercises relevant to actual engineering situations, with solutions included at the end of the text * Coverage of two-, three-, and four-level factors, analysis of variance, robust designs, combination designs, and more Engineers and technical personnel

working in process and product design-as well as other professionals interested in the Taguchi method-will find this book/CD-ROM a tremendously important and useful asset for making the most of DOE in their work.

Nineteen Eighty-Four Springer Science & Business Media

High-Performance Computing using FPGA covers the area of high performance reconfigurable computing (HPRC). This book provides an overview of architectures, tools and applications for High-Performance Reconfigurable Computing (HPRC). FPGAs offer very high I/O bandwidth and fine-grained, custom and flexible parallelism and with the ever-increasing computational needs coupled with the frequency/power wall, the increasing maturity and capabilities of FPGAs, and the advent of multicore processors which has caused the

acceptance of parallel computational models. The Part on architectures will introduce different FPGA-based HPC platforms: attached co-processor HPC architectures such as the CHREC's Novo-G and EPCC's Maxwell systems; tightly coupled HPC architectures, e.g. the Convey hybrid-core computer; reconfigurably networked HPC architectures, e.g. the QPACE system, and standalone HPC architectures such as EPFL's CONFETTI system. The Part on Tools will focus on high-level programming approaches for HPC, with chapters on C-to-Gate tools (such as Impulse-C, AutoESL, Handel-C, MORA-C++); Graphical tools (MATLAB-Simulink, NI LabVIEW); Domain-specific languages, languages for heterogeneous computing (for example OpenCL, Microsoft's Kiwi and Alchemy projects). The part on Applications will present case from several application domains where HPC has been used successfully, such as Bioinformatics and Computational Biology; Financial Computing; Stencil computations; Information retrieval; Lattice QCD; Astrophysics simulations; Weather and climate modeling.

Object-oriented Software Engineering John Wiley & Sons

This book provides a structured treatment of the key principles and techniques for enabling efficient processing of deep neural networks (DNNs). DNNs are currently widely used for many artificial intelligence (AI) applications, including computer vision, speech recognition, and robotics. While DNNs deliver state-of-the-art accuracy on many AI tasks, it comes at the cost of high computational complexity. Therefore, techniques that enable efficient processing of deep neural networks to improve metrics—such as energy-efficiency, throughput, and latency—without sacrificing accuracy or increasing hardware costs are critical to enabling the wide deployment of DNNs in AI systems. The book includes background on DNN processing; a description and taxonomy of hardware architectural approaches for designing DNN accelerators; key metrics for evaluating and comparing different designs; features of the DNN processing that are amenable to hardware/algorithm co-design to improve energy efficiency and throughput; and opportunities for applying new technologies. Readers will find a structured introduction to the field as well as a formalization and organization of key concepts from contemporary works that provides insights that may spark new ideas.

Designing and Optimizing System

Software John Wiley & Sons

This book is about the Zynq-7000 All Programmable System on Chip, the family of devices from Xilinx that combines an application-grade ARM Cortex-A9 processor with traditional FPGA logic fabric. Catering for both new and experienced readers, it covers fundamental issues in an accessible way, starting with a clear overview of the device architecture, and an introduction to the design tools and processes for developing a Zynq SoC. Later chapters progress to more advanced topics such as embedded systems development, IP block design and operating systems. Maintaining a 'real-world' perspective, the book also compares Zynq with other device alternatives, and considers end-user applications. The Zynq Book is accompanied by a set of practical tutorials hosted on a companion website. These tutorials will guide the reader through first steps with Zynq, following on to a complete, audio-based embedded systems design.

Virtualization Essentials Newnes

A facility is only as efficient and profitable as the equipment that is in it: this highly influential book is a powerful resource for chemical, process, or plant engineers who need to select, design or configure plant successfully and profitably. It includes updated information on design methods for all standard equipment, with an emphasis on real-world process design and performance. The comprehensive and influential guide to the selection and design of a wide range of chemical process equipment, used by engineers globally • Copious examples of successful applications, with supporting schematics and data to illustrate the functioning and performance of equipment Revised edition, new material includes updated equipment cost data, liquid-solid and solid systems, and the latest information on membrane separation technology Provides equipment rating forms and manufacturers' data, worked examples, valuable shortcut methods, rules of thumb, and equipment rating forms to demonstrate and support the design process Heavily illustrated with many line drawings and schematics to aid understanding, graphs and tables to illustrate performance data

From Einstein to Artificial Intelligence, the Science and Technology That Transformed Our World John Wiley & Sons

Oracle Exadata Recipes takes an example-based, problem/solution approach in showing how to size, install, configure, manage, monitor, optimize, and migrate Oracle database workloads on and to the

Oracle Exadata Database Machine. Whether you're an Oracle Database administrator, Unix/Linux administrator, storage administrator, network administrator, or Oracle developer, Oracle Exadata Recipes provides effective and proven solutions to accomplish a wide variety of tasks on the Exadata Database Machine. You can feel confident using the reliable solutions that are demonstrated in this book in your enterprise Exadata environment. Managing Oracle Exadata is unlike managing a traditional Oracle database. Oracle's Exadata Database Machine is a pre-configured engineered system comprised of hardware and software, built to deliver extreme performance for Oracle Database workloads. Exadata delivers extreme performance by offering an optimally balanced hardware infrastructure with fast components at each layer of the engineered technology stack, as well as a unique set of Oracle software features designed to leverage the high-performing hardware infrastructure by reducing I/O demands. Let Oracle Exadata Recipes help you translate your existing Oracle Database knowledge into the exciting new growth area that is Oracle Exadata. Helps extend your Oracle Database skillset to the fast-growing, Exadata platform Presents information on managing Exadata in a helpful, example-based format Clearly explains unique Exadata software and hardware features What you'll learn Install and configure Exadata Manage your Exadata hardware infrastructure Monitor and troubleshoot performance issues Manage smart scan and cell offload processing Take advantage of Hybrid Columnar Compression Deploy Smart Flash Cache and Smart Flash Logging Ensure the health of your Exadata environment Who this book is for Oracle Exadata Recipes is for Oracle Database administrators, Unix/Linux administrators, storage administrators, backup administrators, network administrators, and Oracle developers who want to quickly learn to develop effective and proven solutions without reading through a lengthy manual scrubbing for techniques. Readers in a hurry will appreciate the recipe format that sets up solutions to common tasks as the centerpiece of the book. Table of Contents Exadata Hardware Exadata Software How Oracle Works on Exadata Workload Qualification Sizing Exadata Preparing for Exadata Administration and Diagnostics Utilities Backup and Recovery Storage Administration Network Administration Patching and Upgrades Security Monitoring Exadata Storage Cells

Host and Database Performance
Monitoring Smart Scan and Cell Offload
Hybrid Columnar Compression I/O
Resource Management and Instance
Caging Smart Flash Cache and Smart
Flash Logging Storage Indexes Post-
Installation Monitoring Tasks Post-Install
Database Tasks

16 Steps to Product and Process
Improvement CarTech Inc

Your Python code may run correctly, but you need it to run faster. Updated for Python 3, this expanded edition shows you how to locate performance bottlenecks and significantly speed up your code in high-data-volume programs. By exploring the fundamental theory behind design choices, High Performance Python helps you gain a deeper understanding of Python's implementation. How do you take advantage of multicore architectures or clusters? Or build a system that scales up and down without losing reliability? Experienced Python programmers will learn concrete solutions to many issues, along with war stories from companies that use high-performance Python for social media analytics, productionized machine learning, and more. Get a better grasp of NumPy, Cython, and profilers Learn how Python abstracts the underlying computer architecture Use profiling to find bottlenecks in CPU time and memory usage Write efficient programs by choosing appropriate data structures Speed up matrix and vector computations Use tools to compile Python down to machine code Manage multiple I/O and computational operations concurrently Convert multiprocessing code to run on local or remote clusters Deploy code faster using tools like Docker

Computer Architecture CRC Press

The General Motors G-Body is one of the manufacturer's most popular chassis, and includes cars such as Chevrolet Malibu, Monte Carlo, and El Camino; the Buick Regal, Grand National, and GNX; the Oldsmobile Cutlass Supreme; the Pontiac Grand Prix, and more. This traditional and affordable front engine/rear-wheel-drive design lends itself to common upgrades and modifications for a wide range of high-performance applications, from drag racing to road racing. Many of the vehicles GM produced using this chassis were powered by V-8 engines, and others had popular turbocharged V-6 configurations. Some of the special-edition vehicles were outfitted with exclusive performance upgrades, which can be easily adapted to other G-Body vehicles. Knowing which vehicles were equipped with which options, and how to best incorporate all the best-possible equipment is thoroughly

covered in this book. A solid collection of upgrades including brakes, suspension, and the installation of GMs most popular modern engine-the LS-Series V-8-are all covered in great detail. The aftermarket support for this chassis is huge, and the interchangeability and affordability are a big reason for its popularity. It's the last mass-produced V-8/rear-drive chassis that enthusiasts can afford and readily modify. There is also great information for use when shopping for a G-Body, including what areas to be aware of or check for possible corrosion, what options to look for and what should be avoided. No other book on the performance aspects of a GM G-Body has been published until now, and this book will serve as the bible to G-Body enthusiasts for years to come.

Embedded Systems Architecture Mango Media Inc.

George Orwell's Nineteen Eighty-Four is unquestionably the most famous dystopian novel of all times. Written in the year of 1948, the author swapped the last two digits while describing a future totalitarian society where the minds, attitudes and actions of the subjects are thoroughly scrutinized by the "Thought Police", suspected dissidents tracked down and where the worship of the mythical party leader Big Brother is forced upon the masses. The low-ranking party member Winston Smith begins secretly to question the whole system and initiates a forbidden love affair with another party member. Parallel Computer Architecture "O'Reilly Media, Inc."

Analyzing how hacks are done, so as to stop them in the future Reverse engineering is the process of analyzing hardware or software and understanding it, without having access to the sourcecode or design documents. Hackers are able to reverse engineersystems and exploit what they find with scary results. Now the goodguys can use the same tools to thwart these threats. PracticalReverse Engineering goes under the hood of reverse engineeringfor security analysts, security engineers, and system programmers,so they can learn how to use these same processes to stop hackersin their tracks. The book covers x86, x64, and ARM (the first book to cover allthree); Windows kernel-mode code rootkits and drivers; virtualmachine protection techniques; and much more. Best of all, itoffers a systematic approach to the material, with plenty ofhands-on exercises and real-world examples. Offers a systematic approach to understanding reverseengineering, with hands-on exercises and real-world examples Covers x86, x64, and advanced RISC machine

(ARM) architecturesas well as deobfuscation and virtual machine protectiontechniques Provides special coverage of Windows kernel-mode code(rootkits/drivers), a topic not often covered elsewhere, andexplains how to analyze drivers step by step Demystifies topics that have a steep learning curve Includes a bonus chapter on reverse engineering tools Practical Reverse Engineering: Using x86, x64, ARM, WindowsKernel, and Reversing Tools provides crucial, up-to-dateguidance for a broad range of IT professionals.

A Problem-Solution Approach McGraw Hill Professional

Manage the huMONGOus amount of data collected through your web application with MongoDB. This authoritative introduction—written by a core contributor to the project—shows you the many advantages of using document-oriented databases, and demonstrates how this reliable, high-performance system allows for almost infinite horizontal scalability. This updated second edition provides guidance for database developers, advanced configuration for system administrators, and an overview of the concepts and use cases for other people on your project. Ideal for NoSQL newcomers and experienced MongoDB users alike, this guide provides numerous real-world schema design examples. Get started with MongoDB core concepts and vocabulary Perform basic write operations at different levels of safety and speed Create complex queries, with options for limiting, skipping, and sorting results Design an application that works well with MongoDB Aggregate data, including counting, finding distinct values, grouping documents, and using MapReduce Gather and interpret statistics about your collections and databases Set up replica sets and automatic failover in MongoDB Use sharding to scale horizontally, and learn how it impacts applications Delve into monitoring, security and authentication, backup/restore, and other administrative tasks

Design of Experiments Using The Taguchi Approach "O'Reilly Media, Inc."

This 9th edition features a major new case study developed to help illuminate the complexities of shafts and axles.

Practical Performant Programming for Humans "O'Reilly Media, Inc."

YOUR ONE-STOP RESOURCE FOR DIGITAL SYSTEM DESIGN! The explosion in communications and embedded computing technologies has brought with it a host of new skill requirements for electrical and electronics engineers, students, and hobbyists. With engineers

expected to have such diverse expertise, they need comprehensive, easy-to-understand guidance on the fundamentals of digital design. Enter McGraw-Hill's Complete Digital Design. Written by an experienced electrical engineer and networking hardware designer, this book helps you understand and navigate the interlocking components, architectures, and practices necessary to design and implement digital systems. It includes:

- * Real world implementation of microprocessor-based digital systems
- * Broad presentation of supporting analog circuit principles
- * Building complete systems with basic design elements and the latest technologies

Complete Digital Design will teach you how to develop a customized set of requirements for any design problem—and then research and evaluate available components and technologies to solve it. Perfect for the professional, the student, and the hobbyist alike, this is one volume you need handy at all times! What you'll find inside:

- * Digital logic and timing analysis
- * Integrated circuits
- * Microprocessor and computer architecture
- * Memory technologies
- * Networking and serial communications
- * Finite state machine design
- * Programmable logic: CPLD and FPGA
- * Analog circuit basics
- * Diodes, transistors, and operational amplifiers
- * Analog-to-digital conversion
- * Voltage regulation
- * Signal integrity and PCB design
- * And more!

Firewalls For Dummies Apress

Get a head start deploying Windows 10--with tips and best practices from experts in the field. This guide shows you how to deploy Windows 10 in an automated way without impacting end users by leveraging System Center Configuration Manager, which is the most used product to deploy Microsoft operating systems in the industry today.

Membrane Gas Separation John Wiley & Sons

Learn virtualization skills by building your own virtual machine Virtualization Essentials, Second Edition provides new and aspiring IT professionals with immersive training in working with virtualization environments. Clear, straightforward discussion simplifies complex concepts, and the hands-on tutorial approach helps you quickly get up to speed on the fundamentals. You'll begin by learning what virtualization is and how it works within the computing environment, then you'll dive right into building your own virtual machine. You'll learn how to set up the CPU, memory, storage, networking, and more as you master the skills that put you in-demand

on the job market. Each chapter focuses on a specific goal, and concludes with review questions that test your understanding as well as suggested exercises that help you reinforce what you've learned. As more and more companies are leveraging virtualization, it's imperative that IT professionals have the skills and knowledge to interface with virtualization-centric infrastructures. This book takes a learning-by-doing approach to give you hands-on training and a core understanding of virtualization. Understand how virtualization works Create a virtual machine by scratch and migration Configure and manage basic components and supporting devices Develop the necessary skill set to work in today's virtual world Virtualization was initially used to build test labs, but its use has expanded to become best practice for a tremendous variety of IT solutions including high availability, business continuity, dynamic IT, and more. Cloud computing and DevOps rely on virtualization technologies, and the exponential spread of these and similar applications make virtualization proficiency a major value-add for any IT professional. Virtualization Essentials, Second Edition provides accessible, user-friendly, informative virtualization training for the forward-looking pro.

Computer Organization & Architecture 7e "O'Reilly Media, Inc."

The computing world today is in the middle of a revolution: mobile clients and cloud computing have emerged as the dominant paradigms driving programming and hardware innovation today. The Fifth Edition of Computer Architecture focuses on this dramatic shift, exploring the ways in which software and technology in the cloud are accessed by cell phones, tablets, laptops, and other mobile computing devices. Each chapter includes two real-world examples, one mobile and one datacenter, to illustrate this revolutionary change. Updated to cover the mobile computing revolution Emphasizes the two most important topics in architecture today: memory hierarchy and parallelism in all its forms. Develops common themes throughout each chapter: power, performance, cost, dependability, protection, programming models, and emerging trends ("What's Next") Includes three review appendices in the printed text. Additional reference appendices are available online. Includes updated Case Studies and completely new exercises.

Machine Drawing Apress

The creator of YouTube's ColdFusion explores the development of technology from Industrial Revolution to Artificial

Intelligence to figure out what's next. As each new stage of technology builds on the last, advancements start to progress at an exponential rate. In order to know where we're headed, it's essential to know how we got here. What hidden stories lie behind the technology we use today? What drove the men and women who invented it? What were those special moments that changed the world forever? Dagogo Altraide explores these questions in a history of human innovation that reveals how new technologies influence each other, how our modern world came to be, and what future innovations might look like. From the electric world of Tesla and the steam engine revolution to the first computers, the invention of the internet, and the rise of artificial intelligence, New Thinking tells the stories of the men and women who changed our world with the power of new thought. [Automating deployment by using System Center Configuration Manager](#) Springer Science & Business Media

"The signature undertaking of the Twenty-Second Edition was clarifying the QC practices necessary to perform the methods in this manual. Section in Part 1000 were rewritten, and detailed QC sections were added in Parts 2000 through 7000. These changes are a direct and necessary result of the mandate to stay abreast of regulatory requirements and a policy intended to clarify the QC steps considered to be an integral part of each test method. Additional QC steps were added to almost half of the sections."-- Pref. p. iv.

Building Embedded Linux Systems Gulf Professional Publishing

Intended for organisations needing to build an efficient and reliable enterprise network linked to the Internet, this second edition explains the current Internet architecture and shows how to evaluate service providers dealing with connection issues.

A Real-World Guide to Effective VMware Use Programming Embedded Systems With C and GNU Development Tools

Perform fast interactive analytics against different data sources using the Trino high-performance distributed SQL query engine. With this practical guide, you'll learn how to conduct analytics on data where it lives, whether it's Hive, Cassandra, a relational database, or a proprietary data store. Analysts, software engineers, and production engineers will learn how to manage, use, and even develop with Trino. Initially developed by Facebook, open source Trino is now used by Netflix, Airbnb, LinkedIn, Twitter, Uber, and many other companies. Matt Fuller,

Manfred Moser, and Martin Traverso show you how a single Trino query can combine data from multiple sources to allow for analytics across your entire organization. Get started: Explore Trino's use cases and

learn about tools that will help you connect to Trino and query data Go deeper: Learn Trino's internal workings, including how to connect to and query data sources with support for SQL

statements, operators, functions, and more Put Trino in production: Secure Trino, monitor workloads, tune queries, and connect more applications; learn how other organizations apply Trino

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