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*Taking a big-picture
approach, Piping and*

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*Pipeline Engineering:
Design, Construction,
Maintenance, Integrity,
and Repair elucidates
the fundamental steps to
any successful piping
and pipeline engineering*

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project, whether it is routine maintenance or a new multi-million dollar project. The author explores the qualitative details, calculations, and t

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If you need to parse or process text data in Linux or Unix, this useful book explains how to use flex and bison to solve your problems quickly. flex & bison is

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the long-awaited sequel to the classic O'Reilly book, lex & yacc. In the nearly two decades since the original book was published, the flex and bison utilities have

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*proven to be more
reliable and more
powerful than the
original Unix tools.
flex & bison covers the
same core functionality
vital to Linux and Unix*

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*program development,
along with several
important new topics.
You'll find revised
tutorials for novices
and references for
advanced users, as well*

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*as an explanation of
each utility's basic
usage and simple,
standalone applications
you can create with
them. With flex & bison,
you'll discover the wide*

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*range of uses these
flexible tools offer.
Address syntax crunching
that regular expressions
tools can't handle Build
compilers and
interpreters, and handle*

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*a wide range of text
processing functions
Interpret code,
configuration files, or
any other structured
format Learn key
programming techniques,*

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*including abstract
syntax trees and symbol
tables Implement a full
SQL grammar-with
complete sample code Use
new features such as
pure (reentrant) lexers*

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*and parsers, powerful
GLR parsers, and
interfaces to C++
This book surveys
methods, problems, and
tools used in process
control engineering. Its*

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*scope has been purposely
made broad in order to
permit an overall view
of this subject. This
book is intended both
for interested
nonspecialists who wish*

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*to become acquainted
with the discipline of
process control
engineering and for
process control
engineers, who should
find it helpful in*

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identifying individual tasks and organizing them into a coherent whole. A central concern of this treatment is to arrive at a consistent and comprehensive way of

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thinking about process control engineering and to show how the several specialities can be organically fitted into this total view.

SIMATIC is the worldwide

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*established automation
system for implementing
industrial control
systems for machines,
manufacturing plants and
industrial processes.
Relevant open-loop and*

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closed-loop control tasks are formulated in various programming languages with the programming software STEP 7. Now in its fifth edition, this book gives

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an introduction into the latest version of STEP 7. It describes elements and applications for use with both SIMATIC S7-300 and SIMATIC S7-400, including the

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*applications with
PROFINET and for
communication over
industrial Ethernet. It
is aimed at all users of
SIMATIC S7 controllers.
First-time users are*

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*introduced to the field
of programmable
controllers, while
advanced users learn
about specific
applications of the
SIMATIC S7 automation*

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system. All programming examples found in the book - and even a few extra examples - are available at the download area of the publisher's website:

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*www.publicis.de/books
National Electrical Code
2021 IEEE IAS 57th
Industrial and
Commercial Power Systems
Technical Conference
(I&CPS)*

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*Industrial Network
Security*

*The Practical Pumping
Handbook*

Flex & Bison

*The Everyman's Guide to
Modbus*

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Safe, efficient, code-compliant electrical installations are made simple with the latest publication of this widely popular resource. Like its highly successful previous editions, the National Electrical Code 2011 spiral bound version

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combines solid, thorough, research-based content with the tools you need to build an in-depth understanding of the most important topics. New to the 2011 edition are articles including first-time Article 399 on Outdoor,

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Overhead Conductors with over 600 volts, first-time Article 694 on Small Wind Electric Systems, first-time Article 840 on Premises Powered Broadband Communications Systems, and more. This spiralbound version

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allows users to open the code to a certain page and easily keep the book open while referencing that page. The National Electrical Code is adopted in all 50 states, and is an essential reference for those in or entering careers in electrical

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*design, installation, inspection,
and safety.*

*Research efforts in the past
decade have led to considerable
advances in the concepts and
methods of smart manufacturing.
Smart Manufacturing: Applications*

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and Case Studies includes information about the key applications of these new methods, as well as practitioners' accounts of real-life applications and case studies. Written by thought leaders in the field from

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around the world, Smart Manufacturing: Applications and Case Studies is essential reading for graduate students, researchers, process engineers and managers. It is complemented by a companion book titled Smart

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Manufacturing: Concepts and Methods, which describes smart manufacturing methods in detail. Includes examples of applications of smart manufacturing in process industries Provides a thorough overview of the subject and

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*practical examples of applications
through well researched case
studies Offers insights and
accounts of first-hand experiences
to motivate further
implementations of the key
concepts of smart manufacturing*

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Many people think of the Smart Grid as a power distribution group built on advanced smart metering—but that's just one aspect of a much larger and more complex system. The "Smart Grid" requires new technologies

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throughout energy generation, transmission and distribution, and even the homes and businesses being served by the grid. This also represents new information paths between these new systems and services, all of which represents

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risk, requiring a more thorough approach to where and how cyber security controls are implemented. This insight provides a detailed architecture of the entire Smart Grid, with recommended cyber security measures for everything

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*from the supply chain to the consumer. Discover the potential of the Smart Grid Learn in depth about its systems See its vulnerabilities and how best to protect it
Technology is constantly changing.*

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New microcontrollers become available every year and old ones become redundant. The one thing that has stayed the same is the C programming language used to program these microcontrollers. If you would like to learn this

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standard language to program microcontrollers, then this book is for you! ARM microcontrollers are available from a large number of manufacturers. They are 32-bit microcontrollers and usually contain a decent amount of

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memory and a large number of on-chip peripherals. Although this book concentrates on ARM microcontrollers from Atmel, the C programming language applies equally to other manufacturers ARMs as well as other

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microcontrollers. The book features: Use only free or open source software; Learn how to download, set up and use free C programming tools; Start learning the C language to write simple PC programs before tackling

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embedded programming -- no need to buy an embedded system right away!; Start learning to program from the very first chapter with simple programs and slowly build from there; No programming experience is

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necessary!; Learn by doing -- type and run the example programs and exercises; Sample programs and exercises can be downloaded from the Internet; A fun way to learn the C programming language; Ideal for electronic

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*hobbyists, students and engineers
wanting to learn the C
programming language in an
embedded environment on ARM
microcontrollers.*

*KVM Virtualization Cookbook
Control Solutions*

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*Programmer's Guide to Apache
Thrift*

*Learning VMware NSX
Design, Construction and
Monitoring of Buildings for
Improved Energy Efficiency
Unconventional Financial Wisdom*

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to Set Your Church Free

As the sophistication of cyber-attacks increases, understanding how to defend critical infrastructure systems—energy production, water, gas, and other vital systems—becomes more important,

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and heavily mandated. Industrial Network Security, Second Edition arms you with the knowledge you need to understand the vulnerabilities of these distributed supervisory and control systems. The book examines the unique

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protocols and applications that are the foundation of industrial control systems, and provides clear guidelines for their protection. This how-to guide gives you thorough understanding of the unique challenges facing critical

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infrastructures, new guidelines and security measures for critical infrastructure protection, knowledge of new and evolving security tools, and pointers on SCADA protocols and security implementation. All-new real-world examples of attacks

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against control systems, and more
diagrams of systems Expanded
coverage of protocols such as
61850, Ethernet/IP, CIP, ISA-99,
and the evolution to IEC62443
Expanded coverage of Smart Grid
security New coverage of signature-

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based detection, exploit-based vs.
vulnerability-based detection, and
signature reverse engineering
Programmable logic controllers are
microprocessor-based controllers
which use programmable memory to
store instructions and to implement

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functions such as logic, sequence, timing counting and arithmetic to control events. The study of these chips is increasingly being incorporated into engineering courses.

Discover end-to-end penetration

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testing solutions to enhance your
ethical hacking skills Key
Features Practical recipes to conduct
effective penetration testing using
the latest version of Kali
Linux Leverage tools like
Metasploit, Wireshark, Nmap, and

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more to detect vulnerabilities with ease
Confidently perform networking and application attacks using task-oriented recipes
Book Description
Many organizations have been affected by recent cyber events. At the current rate of hacking, it has

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become more important than ever to pentest your environment in order to ensure advanced-level security. This book is packed with practical recipes that will quickly get you started with Kali Linux (version 2018.4 / 2019), in addition to

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covering the core functionalities.

The book will get you off to a strong start by introducing you to the installation and configuration of Kali Linux, which will help you to perform your tests. You will also learn how to plan attack strategies

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and perform web application exploitation using tools such as Burp and JexBoss. As you progress, you will get to grips with performing network exploitation using Metasploit, Sparta, and Wireshark. The book will also help

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you delve into the technique of carrying out wireless and password attacks using tools such as Patator, John the Ripper, and airoscript-ng. Later chapters will draw focus to the wide range of tools that help in forensics investigations and incident

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response mechanisms. As you wrap up the concluding chapters, you will learn to create an optimum quality pentest report. By the end of this book, you will be equipped with the knowledge you need to conduct advanced penetration testing, thanks

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to the book's crisp and task-oriented recipes. What you will learn
Learn how to install, set up and customize Kali for pentesting on multiple platforms
Pentest routers and embedded devices
Get insights into fiddling around with software-

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defined radioPwn and escalate
through a corporate networkWrite
good quality security reportsExplore
digital forensics and memory
analysis with Kali LinuxWho this
book is for If you are an IT security
professional, pentester, or security

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analyst who wants to conduct advanced penetration testing techniques, then this book is for you. Basic knowledge of Kali Linux is assumed.

The Conference reflects the activities of the I&CPS Department

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of the Industry Applications Society (IAS) of the IEEE Over its 57 year history, the conference has been the forum bringing together IAS experienced engineers and our younger engineers Many aspects of Industrial & Commercial Power

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Systems are presented and discussed in relevant papers sponsored by one of the four I&CPS Department Committees participating in this conference (Rural Committee has a separate technical conference)

Welding Science and Technology

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Modbus

CMake Cookbook

C Programming for Embedded
Microcontrollers

Linux for Beginner's Guide to Linux
Command Line, Linux System &
Linux Commands

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Text Processing Tools

Provides a detailed introduction to writing 32-bit Windows applications using C++ and the Microsoft Foundation Class (MFC) library. The text describes the Windows architecture, shows how MFC works, covers the document-view framework, and illustrates advanced

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concepts. The CD-ROM contains source code for all programs in the book.

Annotation copyrighted by Book News, Inc., Portland, OR

Summary Programmer's Guide to Apache Thrift provides comprehensive coverage of the Apache Thrift framework along with a developer's-eye view of modern distributed

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application architecture. Foreword by Jens Geyer. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Thrift-based distributed software systems are built out of communicating components that use different languages, protocols, and

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message types. Sitting between them is Thrift, which handles data serialization, transport, and service implementation. Thrift supports many client and server environments and a host of languages ranging from PHP to JavaScript, and from C++ to Go. About the Book Programmer's Guide to Apache Thrift provides

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comprehensive coverage of distributed application communication using the Thrift framework. Packed with code examples and useful insight, this book presents best practices for multi-language distributed development. You'll take a guided tour through transports, protocols, IDL, and servers as you explore programs

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in C++, Java, and Python. You'll also learn how to work with platforms ranging from browser-based clients to enterprise servers. What's inside Complete coverage of Thrift's IDL Building and serializing complex user-defined types Plug-in protocols, transports, and data compression Creating cross-language

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*services with RPC and messaging systems
About the Reader Readers should be
comfortable with a language like Python,
Java, or C++ and the basics of service-
oriented or microservice architectures.
About the Author Randy Abernethy is an
Apache Thrift Project Management
Committee member and a partner at RX-*

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*M. Table of Contents PART 1 - APACHE
THRIFT OVERVIEW Introduction to
Apache Thrift Apache Thrift architecture
Building, testing, and debugging PART 2 -
PROGRAMMING APACHE THRIFT
Moving bytes with transports Serializing
data with protocols Apache Thrift IDL
User-defined types Implementing services*

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*Handling exceptions Servers PART 3 -
APACHE THRIFT LANGUAGES Building
clients and servers with C++ Building
clients and servers with Java Building C#
clients and servers with .NET Core and
Windows Building Node.js clients and
servers Apache Thrift and JavaScript
Scripting Apache Thrift Thrift in the*

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enterprise

There have been a number of significant developments in welding technology. New developments in advanced welding summarises some of the most important of these and their applications in mechanical and structural engineering. The book begins by reviewing advances in gas metal

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arc welding, tubular cored wired welding and gas tungsten arc welding. A number of chapters discuss developments in laser welding, including laser beam welding and Nd:YAG laser welding. Other new techniques such as electron beam welding, explosion welding and ultrasonic welding are also analysed. The book concludes

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with a review of current research into health and safety issues. With its distinguished editor and international team of contributors, New developments in advanced welding is a standard guide for the welding community. Discusses the changes in advanced welding techniques Looks at new technologies Explores

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*mechanical and structural engineering
examples*

The everyman's guide to Modbus.

*Discover how a protocol born in the
1970's still remains relevant today. A
practical guide to everything Modbus.*

Energy-Smart Buildings

Building, testing, and packaging modular

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software with modern CMake

OPC UA: the Basics

Smart Manufacturing

Functional Programming in Kotlin

Automating with STEP 7 in STL and SCL

*This package consists of the textbook
plus MATLAB & Simulink Student
Version 2010a For undergraduate*

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Introduction to Numerical Analysis courses in mathematics, science, and engineering departments. This book provides a fundamental introduction to numerical analysis for undergraduate students in the areas of mathematics, computer science, physical sciences, and engineering. Knowledge of

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calculus is assumed.

Become a Linux Superstar! What if you could learn about Linux in a simple, easy to follow format? Can you imagine the doors that will be open to you once you gain that knowledge? Tracing its roots back to the mid 90's, Linux came to life and has become

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existent in almost every gadget you see around your home. Linux has unique technical aspects, which makes it distinct from other operating systems out there. To take advantage of its specialties, one must know how to operate it, and this book is made just for that purpose! In fact, all Quick

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Start Guide books are aimed to get you the knowledge you need in an easy to learn and easy to apply method. Our philosophy is we work hard so you don't have to! Linux Beginner's Crash Course is your user manual to understanding how it works, and how you can perfectly manipulate

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the command line with ease and confidence. So...Why Be Interested in Linux? -Cost: It's free and readily available -Freedom: Take full control of your desktop and kernel -Flexibility: Strong structural components that allows you to customize your computer however you want it. What Will You

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*Learn in this Book? 1. Linux Overview
2. Components of Linux 3. The Linux
Kernel 4. Linux Processes 5. Linux
File Systems 6. Linux Processes 7.
Linux Processes This tutorial is going
to help you master the use of LINUX
and make you even more computer
literate. Everything takes time and*

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*learning, and with this book, you are one step away to becoming a pro! Read this book now to quickly learn Linux and open yourself up to a whole new world of possibilities! ?Pick up your copy today. See you on the inside so we can get to work!
Deploy, manage, and scale virtual*

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*instances using Kernel-based Virtual
Machines About This Book Build,
manage and scale virtual machines
with practical step-by-step examples
Leverage the libvirt user-space tools
and libraries to manage the life-cycle
of KVM instances Deploy and scale
applications inside KVM virtual*

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machines with OpenStack Who This Book Is For If you are a system administrator working KVM virtualization, this book will help you grow on your expertise of working with the infrastructure to manage things in a better way. You should have a knowledge of working with Linux

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*based systems. What You Will Learn
Deploy different workloads in isolation
with KVM virtualization and better
utilize the available compute resources
Explore the benefits of running
applications with KVM and learn to
prevent the “bad-neighbor” effect
Leveraging various networking*

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technologies in the context of virtualization with Open vSwitch and the Linux bridge. Create KVM instances using Python and inspect running KVM instances Understand Kernel Tuning for enhanced KVM performance and better memory utilization In Detail Virtualization

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technologies such as KVM allow for better control over the available server resources, by deploying multiple virtual instances on the same physical host, or clusters of compute resources. With KVM it is possible to run various workloads in isolation with the hypervisor layer providing better

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tenant isolation and higher degree of security. This book will provide a deep dive into deploying KVM virtual machines using qemu and libvirt and will demonstrate practical examples on how to run, scale, monitor, migrate and backup such instances. You will also discover real production ready

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recipes on deploying KVM instances with OpenStack and how to programatically manage the life cycle of KVM virtual machines using Python. You will learn numerous tips and techniques which will help you deploy & plan the KVM infrastructure. Next, you will be introduced to the working of

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libvirt libraries and the iPython development environment. Finally, you will be able to tune your Linux kernel for high throughput and better performance. By the end of this book, you will gain all the knowledge needed to be an expert in working with the KVM virtualization infrastructure. Style

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and approach This book takes a complete practical approach with many step-by-step example recipes on how to use KVM in production. The book assumes certain level of expertise with Linux systems and virtualization in general. Some knowledge of Python programming is

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encouraged, to fully take advantage of the code recipes.

This book is the definitive guide on the OSSEC Host-based Intrusion Detection system and frankly, to really use OSSEC you are going to need a definitive guide. Documentation has been available since the start of the

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OSSEC project but, due to time constraints, no formal book has been created to outline the various features and functions of the OSSEC product. This has left very important and powerful features of the product undocumented...until now! The book you are holding will show you how to

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install and configure OSSEC on the operating system of your choice and provide detailed examples to help prevent and mitigate attacks on your systems. -- Stephen Northcutt OSSEC determines if a host has been compromised in this manner by taking the equivalent of a picture of the host

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machine in its original, unaltered state. This "picture" captures the most relevant information about that machine's configuration. OSSEC saves this "picture" and then constantly compares it to the current state of that machine to identify anything that may have changed from

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the original configuration. Now, many of these changes are necessary, harmless, and authorized, such as a system administrator installing a new software upgrade, patch, or application. But, then there are the not-so-harmless changes, like the installation of a rootkit, trojan horse, or

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virus. Differentiating between the harmless and the not-so-harmless changes determines whether the system administrator or security professional is managing a secure, efficient network or a compromised network which might be funneling credit card numbers out to phishing

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gangs or storing massive amounts of pornography creating significant liability for that organization.

Separating the wheat from the chaff is by no means an easy task. Hence the need for this book. The book is co-authored by Daniel Cid, who is the founder and lead developer of the

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*freely available OSSEC host-based IDS. As such, readers can be certain they are reading the most accurate, timely, and insightful information on OSSEC. * Nominee for Best Book Bejtlich read in 2008! * <http://taosecurity.blogspot.com/2008/12/best-book-bejtlich-read-in-2008.html> • Get*

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Started with OSSEC Get an overview of the features of OSSEC including commonly used terminology, pre-install preparation, and deployment considerations. • Follow Steb-by-Step Installation Instructions Walk through the installation process for the "local , "agent , and "server" install types on

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some of the most popular operating systems available. • Master Configuration Learn the basic configuration options for your install type and learn how to monitor log files, receive remote messages, configure email notification, and configure alert levels. • Work With Rules Extract key

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information from logs using decoders and how you can leverage rules to alert you of strange occurrences on your network. • Understand System Integrity Check and Rootkit Detection Monitor binary executable files, system configuration files, and the Microsoft Windows registry. • Configure Active

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Response Configure the active response actions you want and bind the actions to specific rules and sequence of events. • Use the OSSEC Web User Interface Install, configure, and use the community-developed, open source web interface available for OSSEC. • Play in the OSSEC

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VMware Environment Sandbox • Dig Deep into Data Log Mining Take the “high art of log analysis to the next level by breaking the dependence on the lists of strings or patterns to look for in the logs.

*Piping and Pipeline Engineering
LINUX Beginner's Crash Course*

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Automating with SIMATIC

Automating with SIMATIC S7-1200

Securing Critical Infrastructure

Networks for Smart Grid, SCADA, and

Other Industrial Control Systems

Design, Construction, Maintenance,

Integrity, and Repair

Totally Integrated

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Automation is the concept by means of which SIMATIC controls machines, manufacturing systems and technical processes. Taking the example of the S7-300/400 programmable

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controller, this book provides a comprehensive introduction to the architecture and operation of a state-of-the-art automation system. It also gives an insight into configuration and

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parameter setting for the controller and the distributed I/O. Communication via network connections is explained, along with a description of the available scope for operator control

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and monitoring of a plant. As the central automation tool, STEP 7 manages all relevant tasks and offers a choice of various text and graphics-oriented PLC programming languages. The available

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languages and their respective different features are explained to the reader. For this third edition, the contents of all sections of the book have been revised, updated and the new data

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communications with PROFINET IO have been added. The STEP 7 basic software is explained in its latest version. The book is ideal for those who have no extensive prior knowledge of

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programmable controllers
and wish for an
uncomplicated introduction
to this subject.

When a pharmaceutical
company decides to build a
Quality System, it has to

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face the fact that there aren't any guideline that define exactly how such a system has to be built. With terms such as quality system, quality assurance, and quality management

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used interchangeably, even defining the system's objectives is a problem. This book provides a pr
Do you need to learn computer programming skills for your job or want to start

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it as a hobby? Is this something that is alien to you and leaves you scratching your head in confusion? Do you need something simple, like Linux, to get started? This book will

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provide the answers you need. Millions of us own computers for a variety of reasons. Some use them for gaming and fun while others are engaged in the serious business of making money.

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But many simply do not get true value from their computer as they struggle to understand programming and fail to grasp how it could improve their usage in many ways. Inside this book, Linux:

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The Ultimate Beginner's
Guide to Learn Linux
Operating System,
Command Line and Linux
Programming Step by Step,
you will learn a valuable skill
that will improve your

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computing expertise, leading you to discover the basics of Linux through chapters that cover:

- How to get started with Linux
- Installation and troubleshooting tips and advice
- Installing new and

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exciting software • System administration tasks • Keeping your system secure and building firewalls • An introduction to Cloud computing and technology • And lots more... Learning a

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computer language need not be a confusing and lengthy process. The basics of it can be learned quickly and with minimal effort and Linux is the book that will lay the foundations for you to

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become a skilled and
proficient programmer,
faster than you could have
imagined. Get a copy now
and start learning Linux
today!

Advanced Control and

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Supervision of Mineral Processing Plants describes the use of dynamic models of mineral processing equipment in the design of control, data reconciliation and soft-sensing schemes;

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through examples, it illustrates tools integrating simulation and control system design for comminuting circuits and flotation columns. Coverage is given to the design of soft

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sensors based on either single-point measurements or more complex measurements like images. Issues concerning data reconciliation and its employment in the creation

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of instrument architecture and fault diagnosis are surveyed. In consideration of the widespread use of distributed control and information management systems in mineral

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processing, the book describes the platforms and toolkits available for implementing such systems. Applications of the techniques described in real plants are used to highlight

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their benefits; information for all of the examples, together with supporting MATLAB® code can be found at www.springer.com/978-1-84996-105-9.

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VMware NSX About This Book Install, manage, monitor and configure your NSX deployment. Understand VMware NSX's components and discover best practices to help you manage VMware NSX A step by step guide that will help you elevate your skills in deploying NSX to your environment Who This Book Is

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For The book is intended for network and system administrators that have hands on experience with VMware vSphere suite of products and would like to learn more about software defined networking and implementation of NSX. The readers are also expected to have basic networking knowledge and aware of basic switching

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*and routing fundamentals. What You
Will Learn Understand software-defined
networks Deploy and configure VXLAN-
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environment using Distributed Firewall
and Data Security Configure third-party
services in NSX Manage, configure, and
deploy edge gateway services Perform*

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various Edge operations including configuring CA certificates Explore the different monitoring options to check their traffic flow In Detail VMware NSX is a platform for the software-defined data center. It allows complex networking topologies to be deployed programmatically in seconds. SDNs

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allow ease of deployment, management, and automation in deploying and maintaining new networks while reducing and in some cases completely eliminating the need to deploy traditional networks. The book allows you a thorough understanding of implementing Software defined networks using

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VMware's NSX. You will come across the best practices for installing and configuring NSX to setup your environment. Then you will get a brief overview of the NSX Core Components NSX's basic architecture. Once you are familiar with everything, you will get to know how to deploy various NSX

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features. Furthermore, you will understand how to manage and monitor NSX and its associated services and features. In addition to this, you will also explore the best practices for NSX deployments. By the end of the book, you will be able to deploy Vmware NSX in your own environment with ease. This

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book can come handy if you are preparing for VMware NSX certification.

Style and approach This is an easy-to-follow guide with tested configuration steps to get you up and running quickly.

This book covers the nitty-gritty of installing, configuring, managing, and monitoring VMware NSX.

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OPC UA: The Basics is an Everyman's overview of OPC UA. This is not a hardcore technical specification that digs down to the smallest bits and bytes of OPC UA. This is a high level overview of the protocol for someone without 20 years of experience in embedded programming. Perfect for a sales person,

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exponential ways and how potential solutions might be reached. They describe how new technologies in computing and engineering have reduced the dimension of data coverage worldwide, and how recent inventions in

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(ICT) have inched towards
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applicants to enter the*

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simplified, pragmatic, and
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without much theory. The
book examines the basics of
Swift programming,
fundamental Swift building*

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Swift or mobile app*

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development experience.

TABLE OF CONTENTS Week 1

***(Beginner) 1. Building Your
First App 2. Swift***

Programming Basics 3. Auto

Layout 4. Types and Control

Flow Week 2 (Intermediate)

5. Optional Type and More 6.

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Code Structuring Week 3

(Advanced) 7. OOP in Swift

8. Protocols and Delegates

Week 4 (Bonus) 9. Error

handling and Debugging 10.

SwiftUI

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C, C++, and Fortran Progress
from simple to advanced*

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on Linux, macOS, and
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complexity and library
dependencies with reusable
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Description CMake is cross-
platform, open-source*

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software for managing the build process in a portable fashion. This book features a collection of recipes and building blocks with tips and techniques for working with CMake, CTest, CPack, and CDash. CMake Cookbook

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building, and testing
binaries and libraries. With
this book, you will be able
to work with external
libraries and structure your
own projects in a modular*

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and reusable way. You will be well-equipped to generate native build scripts for Linux, MacOS, and Windows, simplify and refactor projects using CMake, and port projects to CMake. What you will learnConfigure,

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*build, test, and install
code projects using
CMakeDetect operating
systems, processors,
libraries, files, and
programs for conditional
compilation*
*Increase the
portability of your*

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*codeRefactor a large
codebase into modules with
the help of CMakeBuild multi-
language projectsKnow where
and how to tweak CMake
configuration files written
by somebody elsePackage
projects for*

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*distributionPort projects to
CMakeWho this book is for If
you are a software developer
keen to manage build systems
using CMake or would like to
understand and modify CMake
code written by others, this
book is for you. A basic*

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Fortran is required to
understand the topics
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Controls into the Modern
Power Infrastructure
Linux***

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