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Based Circuit Breaker

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Build and deploy scalable cloud native microservices using the Spring framework and Kubernetes. KEY FEATURES ? Complete coverage on how to design, build, run, and deploy modern cloud native microservices. ? Includes numerous sample code exercises on microservices, Spring and Kubernetes. ? Develop a stronghold on Kubernetes, Spring, and the microservices architecture. ? Complete guide of application containerization on Kubernetes containers. ? Coverage on managing modern applications and infrastructure using observability tools. DESCRIPTION The main objective of

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this book is to give an overview of cloud native microservices, their architecture, design patterns, best practices, real use cases and practical coverage of modern applications. This book covers a strong understanding of the fundamentals of microservices, API first approach, Testing, observability, API Gateway, Service Mesh and Kubernetes alternatives of Spring Cloud. This book covers the implementation of various design patterns of developing cloud native microservices using Spring framework docker and Kubernetes libraries. It covers containerization concepts and hands-on lab exercises like how to build, run and manage microservices applications using Kubernetes. After reading this book, the readers will have

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a holistic understanding of building, running, and managing cloud native microservices applications on Kubernetes containers. WHAT YOU WILL LEARN ? Learn fundamentals of microservice and design patterns. ? Learn microservices development using Spring Boot and Kubernetes. ? Learn to develop reactive, event-driven, and batch microservices. ? Perform end-to-end microservices testing using Cucumber. ? Implement API gateway, authentication & authorization, load balancing, caching, rate limiting. ? Learn observability and monitoring techniques of microservices. WHO THIS BOOK IS FOR This book is for the Spring Developers, Microservice Developers, Cloud Engineers, DevOps Consultants,

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Technical Architect and Solution Architects, who have some familiarity with application development, Docker and Kubernetes containers. TABLE OF CONTENTS

- 1. Overview of Cloud Native microservices*
- 2. Microservice design patterns*
- 3. API first approach*
- 4. Build microservices using the Spring Framework*
- 5. Batch microservices*
- 6. Build reactive and event-driven microservices*
- 7. The API gateway, security, and distributed caching with Redis*
- 8. Microservices testing and API mocking*
- 9. Microservices observability*
- 10. Containers and Kubernetes overview and architecture*
- 11. Run microservices on Kubernetes*
- 12. Service Mesh and Kubernetes alternatives of Spring Cloud*

The COVID-19 pandemic has caused,

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and will continue to cause, great disruptions to lives, livelihoods, ways of life, and quality of life. We will need to learn to live with the coronavirus for a long time, even as we combat the coronavirus crisis collectively and fight our own daily battles individually. This book examines Singapore's reaction and response to the coronavirus and draws lessons for crisis management, psychological preparedness, and adaptability. Consisting of 12 chapters, the book is organized into three parts. Part 1 elaborates on the context of the coronavirus crisis and discusses human reactions to the outbreak and the key adaptation challenges that people faced. Part 2 discusses Singapore's leadership and public responses, focusing on negative

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emotions, social responsibility, adoption of new technology for contact tracing, and the handling of the outbreak among migrant workers at the dormitories. Part 3 addresses issues of psychological preparedness amid the evolving COVID-19 situation, in terms of adapting to post-pandemic realities, enabling positive attitudes and experiences, building psychological capital, and learning to work together to emerge stronger and better from the coronavirus crisis.

Advances in new equipment, new processes, and new technology are the driving forces in improvements in energy management, energy efficiency and energy cost control. The purpose of this book is to document the operational experience with web based

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systems in actual facilities and in varied applications, and to show how new opportunities have developed for energy and facility managers to quickly and effectively control and manage their operations. You'll find information on what is actually happening at other facilities, and see what is involved for current and future installations of internet-based technologies. The case studies and applications described should greatly assist energy, facility and maintenance managers, as well as consultants and control systems development engineers. If you create, manage, operate, or configure systems running in the cloud, you're a cloud engineer--even if you work as a system administrator, software developer, data scientist, or

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site reliability engineer. With this book, professionals from around the world provide valuable insight into today's cloud engineering role. These concise articles explore the entire cloud computing experience, including fundamentals, architecture, and migration. You'll delve into security and compliance, operations and reliability, and software development. And examine networking, organizational culture, and more. You're sure to find 1, 2, or 97 things that inspire you to dig deeper and expand your own career. "Three Keys to Making the Right Multicloud Decisions," Brendan O'Leary "Serverless Bad Practices," Manases Jesus Galindo Bello "Failing a Cloud Migration," Lee Atchison "Treat Your

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Cloud Environment as If It Were On Premises," Iyana Garry "What Is Toil, and Why Are SREs Obsessed with It?", Zachary Nickens "Lean QA: The QA Evolving in the DevOps World," Theresa Neate "How Economies of Scale Work in the Cloud," Jon Moore "The Cloud Is Not About the Cloud," Ken Corless "Data Gravity: The Importance of Data Management in the Cloud," Geoff Hughes "Even in the Cloud, the Network Is the Foundation," David Murray "Cloud Engineering Is About Culture, Not Containers," Holly Cummins

Chronicles of a Circuit Breaker

CompTIA A+ 220-701 and 220-702 Exam Cram

The Large-scale Renewable Energy Integration Challenge

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Gas Insulated Substations

*Power System Commissioning and
Maintenance Practice*

Converters, Systems and DC Grids

This unique book covers the practical issues associated with commissioning and supporting plant which commonly face engineers, enabling readers to rapidly become familiar with basic theory and design of equipment prior to considering commissioning or related work.

Computing Methodologies
2018 will provide an
outstanding international
forum for scientists from all

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over the world to share ideas and achievements in the theory and practice of all areas of inventive systems which includes artificial intelligence, automation systems, computing systems, electronics systems, electrical and informative systems etc Presentations should highlight computing methodologies as a concept that combines theoretical research and applications in automation, information and computing technologies All aspects of inventive systems are of interest theory,

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algorithms, tools, applications, etc

Switching in Electrical Transmission and Distribution Systems presents the issues and technological solutions associated with switching in power systems, from medium to ultra-high voltage. The book systematically discusses the electrical aspects of switching, details the way load and fault currents are interrupted, the impact of fault currents, and compares switching equipment in particular circuit-breakers. The authors also explain all

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examples of practical switching phenomena by examining real measurements from switching tests. Other highlights include: up to date commentary on new developments in transmission and distribution technology such as ultra-high voltage systems, vacuum switchgear for high-voltage, generator circuit-breakers, distributed generation, DC-interruption, aspects of cable systems, disconnector switching, very fast transients, and circuit-breaker reliability studies.

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Key features: Summarises the issues and technological solutions associated with the switching of currents in transmission and distribution systems. Introduces and explains recent developments such as vacuum switchgear for transmission systems, SF6 environmental consequences and alternatives, and circuit-breaker testing. Provides practical guidance on how to deal with unacceptable switching transients. Details the worldwide IEC (International

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Electrotechnical Commission) standards on switching equipment, illustrating current circuit-breaker applications. Features many figures and tables originating from full-power tests and established training courses, or from measurements in real networks. Focuses on practical and application issues relevant to practicing engineers. Essential reading for electrical engineers, utility engineers, power system application engineers, consultants and power system asset managers, postgraduates

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and final year power system undergraduates. Comprehensive reference covering all aspects of gas insulated substations including basic principles, technology, use & application, design, specification, testing and ownership issues This book provides an overview on the particular development steps of gas insulated high-voltage switchgear, and is based on the information given with the editor's tutorial. The theory is kept low only as much as it is needed to understand gas insulated

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technology, with the main focus of the book being on delivering practical application knowledge. It discusses some introductory and advanced aspects in the meaning of applications. The start of the book presents the theory of Gas Insulated Technology, and outlines reliability, design, safety, grounding and bonding, and factors for choosing GIS. The third chapter presents the technology, covering the following in detail: manufacturing, specification, instrument transformers, Gas Insulated Bus, and the

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assembly process. Next, the book goes into control and monitoring, which covers local control cabinet, bay controller, control schemes, and digital communication. Testing is explained in the middle of the book before installation and energization. Importantly, operation and maintenance is discussed. This chapter includes information on repair, extensions, retrofit or upgrade, and overloading. Finally applications are covered along with concepts of layout, typical layouts, mixed technology

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substations, and then other topics such as life cycle assessment, environmental impact, and project management. A one-stop, complete reference text on gas insulated substations (GIS), large-capacity and long-distance electricity transmission, which are of increasing importance in the power industry today Details advanced and basic material, accessible for both existing GIS users and those planning to adopt the technology Discusses both the practical and theoretical aspects of GIS Written by

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acknowledged GIS experts who have been involved in the development of the technology from the start Switching in Electrical Transmission and Distribution Systems Commerce Business Daily Develop, deploy, and configure cloud-based, enterprise Java applications with WildFly Swarm and OpenShift

The President Is Missing
The Emperor's Revenge
Design and Applications

This book comprises select peer-reviewed proceedings of the International Conference

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on Advances in Materials Research (ICAMR 2019). The contents cover latest research in materials and their applications relevant to composites, metals, alloys, polymers, energy and phase change. The indigenous properties of materials including mechanical, electrical, thermal, optical, chemical and biological functions are discussed. The book also elaborates the properties and performance enhancement and/or deterioration in order of the modifications in atomic particles and structure. This

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book will be useful for both students and professionals interested in the development and applications of advanced materials.

This title discusses, in depth, the wide range of technologies that are involved in power circuit breaker design by analysing the theoretical and practical problems.

44 reusable patterns to develop and deploy reliable production-quality microservices-based applications, with worked examples in Java Key Features 44 design patterns for building and deploying

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***microservices applications
Drawing on decades of unique
experience from author and
microservice architecture
pioneer Chris Richardson A
pragmatic approach to the
benefits and the drawbacks of
microservices architecture
Solve service decomposition,
transaction management, and
inter-service communication
Purchase of the print book
includes a free eBook in PDF,
Kindle, and ePub formats from
Manning Publications. About
The Book Microservices
Patterns teaches you 44
reusable patterns to reliably
develop and deploy***

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***production-quality
microservices-based
applications. This invaluable
set of design patterns builds
on decades of distributed
system experience, adding
new patterns for composing
services into systems that
scale and perform under real-
world conditions. More than
just a patterns catalog, this
practical guide with worked
examples offers industry-
tested advice to help you
design, implement, test, and
deploy your microservices-
based application. What You
Will Learn How (and why!) to
use microservices architecture***

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Service decomposition strategies Transaction management and querying patterns Effective testing strategies Deployment patterns This Book Is Written For Written for enterprise developers familiar with standard enterprise application architecture. Examples are in Java. About The Author Chris Richardson is a Java Champion, a JavaOne rock star, author of Manning's POJOs in Action, and creator of the original CloudFoundry.com. Table of Contents Escaping monolithic hell Decomposition strategies

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***Interprocess communication in a microservice architecture
Managing transactions with sagas Designing business logic in a microservice architecture Developing business logic with event sourcing Implementing queries in a microservice architecture External API patterns Testing microservices: part 1 Testing microservices: part 2 Developing production-ready services Deploying microservices Refactoring to microservices Provides an original, detailed, and practical description of***

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current interruption transients, origins, and the circuits involved, and shows how they can be calculated Based on a course that has been presented by the author worldwide, this book teaches readers all about interruption transients calculation—showing how they can be calculated using only a hand calculator and Excel. It covers all the current interruption cases that occur on a power system and relates oscillatory circuit (transients) and symmetrical component theory to the practical calculation of current

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interruption transients as applied to circuit breaker application. The book explains all cases first in theory, and then illustrates them with practical examples. Topics featured in Current Interruption Transients Calculation, Second Edition include: RLC Circuits; Pole Factor Calculation; Terminal Faults; Short Line Faults; Inductive Load Switching; and Capacitive Load Switching. The book also features numerous appendices that cover: Differential Equations; Principle of Duality; Useful Formulae; Euler's Formula;

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Asymmetrical Current-Calculating Areas Under Curves; Shunt Reactor Switching; and Generator Circuit Breaker TRVs. Offers a clear explanation of how to calculate transients without the use of specialist software, showing how four basic circuits can represent all transients Describes every possible current interruption case that can arise on a power system, explaining them through theory and practical examples Analyses oscillatory circuit (transients) and symmetrical component theory in detail Takes a

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practical approach to the subject so engineers can use the knowledge in circuit breaker applications Current Interruption Transients Calculation, Second Edition is an ideal book for power electrical engineers, as well as transmission and distribution staff in the areas of planning and system studies, switchgear application, specification and testing, and commissioning and system operation.

Hands-On Cloud Development with WildFly Case Studies and Applications 2018 Second International

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***Conference on Computing
Methodologies and
Communication (ICCMC)
High Voltage Circuit Breakers
97 Things Every Cloud
Engineer Should Know
Design and Build Modern
Cloud Native Applications
using Spring and Kubernetes
(English Edition)***

**This book takes you through
tried and tested approaches to
building distributed systems
and implementing
microservices architecture. It
follows a single real-world
project from start to finish,
using Spring Boot, Spring
Cloud, and a full suite of**

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related tools and frameworks for development, security, testing, and deployment. This text concentrates on the fundamentals of protective relaying and aims to provide lasting information in intelligible language. It covers the relative qualities of modern transmission line systems, communications channels, three-terminal applications and program design for microprocessors, and also supplies an encyclopaedic bibliography listing professional papers useful to the relay engineer. The purpose of this book is to

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provide a working knowledge and an exposure to cutting edge developments in operation and control of electric energy processing systems. The book focuses on the modeling and control of interdependent communications and electric energy systems, Micro-Electro-Mechanical Systems (MEMS), and the interdisciplinary education component of the EPNES initiative. The handbook further addresses the issue of protection of switchgears, including protection schemes for medium voltage

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switchgears, generator protection for large generators, EHV transmission system control and protection, and integrated protection and control systems for substations. The erection, commissioning, operation and maintenance aspects of switchgears under various conditions are also included, with experience-based information on the dos and don'ts of site work, inspection, and maintenance procedures. With its coverage of general concepts as well as consolidated information in the context of Indian

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conditions, this book is an essential reference for all practicing switchgear engineers, institutions, and academicians.

**Handbook of Switchgears
Cloud Native Microservices
with Spring and Kubernetes
Sherlock Sam and the
Seafaring Scourge on Sentosa
Web Based Energy
Information and Control
Systems
Cognitive Informatics and Soft
Computing
Microservices with Spring
Boot and Spring Cloud
The 2016 International
Conference on Mechatronics**

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and Automation Engineering (ICMAE2016) have been successfully held in Xiamen, China, on April 22nd – 24th. The conference received well over more than 200 submissions, however, only 64 articles were selected and recommended to be included in this proceedings, which organized into 4 main areas, namely, Industrial Automation and Control System, Intelligent Mechatronics and Robotics, Mechanical Engineering and Electrical Engineering and Computer Science. The conference provides the opportunity to showcase state of art research and development in Mechatronics

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and Automation Engineering from researchers and developers from around the world under one roof to compare notes and establish collaborative relationships. This book documents recent advances in the field of modeling, simulation, control, security and reliability of Cyber-Physical Systems (CPS) in power grids. The aim of this book is to help the reader gain insights into working of CPSs and understand their potential in transforming the power grids of tomorrow. This book will be useful for all those who are interested in design of cyber-physical systems, be they students or

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researchers in power systems, CPS modeling software developers, technical marketing professionals and business policy-makers.

Don't miss the #1 New York Times bestselling thriller from the world's bestselling author, James Patterson: an "undeniably gripping ride through the hidden passageways of power and politics" that "moves like Air Force One" (Michael Connelly). The President Is Missing confronts a threat so huge that it jeopardizes not just Pennsylvania Avenue and Wall Street, but all of America. Uncertainty and fear grip the nation. There

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are whispers of cyberterror and espionage and a traitor in the Cabinet. Even the President himself becomes a suspect, and then he disappears from public view . . . Set over the course of three days, *The President Is Missing* sheds a stunning light upon the inner workings and vulnerabilities of our nation. Filled with information that only a former commander in chief could know, this is the most authentic, terrifying novel to come along in many years. #1 New York Times bestseller #1 USA Today bestseller #1 Wall Street Journal bestseller #1 Indie bestseller "President Duncan

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for a second term!" -- USA Today
"This book's a big one." -- New York Times
"Towers above most political thrillers." -- Pittsburgh Post-Gazette
"The plotting is immaculate . . . the writing is taut." -- Sunday Times (London)
"Ambitious and wildly readable." -- New York Times Book Review
A unique combination of theoretical knowledge and practical analysis
experience Derived from Yoshihide Hases Handbook of Power Systems Engineering, 2nd Edition, this book provides readers with everything they need to know about power system dynamics.

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Presented in three parts, it covers power system theories, computation theories, and how prevailed engineering platforms can be utilized for various engineering works. It features many illustrations based on ETAP to help explain the knowledge within as much as possible.

Recompiling all the chapters from the previous book, Power System Dynamics with Computer Based Modeling and Analysis offers nineteen new and improved content with updated information and all new topics, including two new chapters on circuit analysis which help engineers with non-

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electrical engineering backgrounds. Topics covered include: Essentials of Electromagnetism; Complex Number Notation (Symbolic Method) and Laplace-transform; Fault Analysis Based on Symmetrical Components; Synchronous Generators; Induction-motor; Transformer; Breaker; Arrester; Overhead-line; Power cable; Steady-State/Transient/Dynamic Stability; Control governor; AVR; Directional Distance Relay and R-X Diagram; Lightning and Switching Surge Phenomena; Insulation Coordination; Harmonics; Power Electronics Applications (Devices, PE-

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circuit and Control) and more. Combines computer modeling of power systems, including analysis techniques, from an engineering consultants perspective Uses practical analytical software to help teach how to obtain the relevant data, formulate what-if cases, and convert data analysis into meaningful information Includes mathematical details of power system analysis and power system dynamics Power System Dynamics with Computer-Based Modeling and Analysis will appeal to all power system engineers as well as engineering and electrical

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engineering students.

Expert Clouds and Applications

Current Interruption

Transients Calculation

Microservices Patterns

Develop and run your application with Docker

containers using DevOps tools for continuous

delivery

Combating A Crisis: The

Psychology Of Singapore's

Response To Covid-19

Docker for Developers

This book features original papers

from International Conference on

Expert Clouds and Applications

(ICOECA 2021), organized by GITAM

School of Technology, Bangalore,

India during February 18–19, 2021. It

covers new research insights on

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artificial intelligence, big data, cloud computing, sustainability, and knowledge-based expert systems. The book discusses innovative research from all aspects including theoretical, practical, and experimental domains that pertain to the expert systems, sustainable clouds, and artificial intelligence technologies.

The definitive guide to the National Electric Code—thoroughly revised for 2020 rules and regulations Updated to fully align with the 2020 NEC, this trusted on-the-job reference contains plain-language explanations, advice, and analysis for every provision. You will get discussions of the rationale behind specific rules that enhances your understanding of both meaning and application. This handbook features thousands of detailed diagrams and photos as well as in-

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depth discussions regarding controversial wording and actual errors, together with possible approaches to discussions with inspectors regarding how to cope with these issues. This book is not published by NFPA, and is therefore free to confront such topics head on. Written by a senior member of the NEC Code Committee, McGraw Hill's National Electrical Code (NEC) 2020 Handbook, 30th Edition is logically arranged and serves as a companion to the Code itself?the explanation for any topic lines up exactly with the applicable section in the Code. The book does not reproduce the Code, and therefore every column inch is devoted to explaining its provisions. You will get straightforward clarification of obtuse rules and vague language, enabling you to work

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efficiently and safely—and to achieve full compliance. Covers all significant changes to the 2020 NEC, including: Reconditioned equipment Massive expansion of GFCI requirements New receptacle coverage rules for kitchen islands and peninsulas Total revision of non-dwelling lighting load calculations Elimination of common enclosures for service disconnects Exterior emergency disconnects Rules for stair towers New EGC fill calculations for boxes Temperature limits for LFMC and LFNC Latest developments for PV systems

The subject of power systems has assumed considerable importance in recent years and growing demand for a compact work has resulted in this book. A new chapter has been added on Neutral Grounding.

This newly revised and updated

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reference presents sensible approaches to the design, selection, and usage of high-voltage circuit breakers-highlighting compliance issues concerning new and aging equipment to the evolving standards set forth by the American National Standards Institute and the International Electrotechnical Commission. This edition features the latest advances in mechanical and dielectric design and application from a simplified qualitative perspective. High Voltage Circuit Breakers: Design and Applications features new material on contact resistance, insulating film coatings, and fretting; temperature at the point of contact; short-time heating of copper; erosion and electromagnetic forces on contacts; closing speed and circuit breaker requirements; "weld" break and

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contact bounce; factors influencing dielectric strength; air, SF6, vacuum, and solid insulation; and dielectric loss and partial discharges, and includes updated chapters on capacitance switching; switching series and shunt reactors; temporary overvoltages; and the benefits of condition monitoring.

Proceedings of ICOECA 2021

Flexible Network Architectures

Security

Principles and Issues

Electronic Circuits for the Evil Genius

2/E

Mechatronics And Automation

Engineering - Proceedings Of The

2016 International Conference

(Icmae2016)

A Novel

The adventures of the Supper Club

continue! In Sherlock Sam and the

Seafaring Scourge on Sentosa, Sherlock

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and the Supper Club find themselves on a collision course with their most dangerous foe yet! A collector ' s priceless artifacts have been stolen and he hires the Wonderful Watson Online Detective Agency to retrieve them. Sherlock and his friends find themselves following clues on the small islands around Singapore, only to discover the true culprits behind the crime are none other than Pirates Inc.! Will the Supper Club succeed in dismantling this international criminal cartel, or will they find themselves exploring Davy Jones ' Locker? Find out in Sherlock Sam ' s next exciting adventure!

CompTIA A+ 220-701 and 220-702 Exam Cram, Fifth Edition, is the perfect study guide to help you pass CompTIA ' s 220-701 and 220-702

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versions of the A+ exams. It provides coverage and practice questions for every exam topic. The book contains an extensive set of practice questions, including 250 printed questions in three practice exams, while the CD-ROM test engine provides real-time practice and feedback with an additional 200 questions. This is the eBook version of the print title. Access to the practice test engine on the CD is available through product registration at Pearson IT Certification - or see instructions in back pages of your eBook. Limited Time Offer: Buy CompTIA A+ 220-701 and 220-702 Exam Cram and receive a 10% off discount code for the CompTIA A+ 220-701 and 220-702 exams. To receive your 10% off discount code: 1. Register your product at

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pearsonITcertification.com/register 2. When prompted, enter ISBN number: 9780789747921 3. Go to your Account page and click on “ Access Bonus Content ” Covers the critical information you ’ ll need to know to score higher on your A+ exams! · Understand PC components, including motherboards, processors, memory, power, storage, audio, video, and I/O devices · Install, configure, maintain, troubleshoot, and fix desktop and notebook PC hardware · Install and configure Windows 7, Windows Vista, and other Windows operating systems · Use Windows utilities to troubleshoot and fix operating system problems · Understand essential networking technologies, devices, protocols, cabling, and connections · Set up small

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office/home office networks, including Internet and Wi-Fi connections · Troubleshoot and fix failed client-side network connections · Secure computers and networks, identify security problems, and eliminate viruses and malware · Detect and solve the most common printing problems · Perform essential preventive maintenance · Master essential safety and operational procedures for PC technicians · Prepare yourself effectively for exam day

The Oregon crew must work without their usual resources when a rogue hacker empties their bank account in this action-packed installment from the #1 New York Times – bestselling grand master of adventure. When a bank heist during the Monaco Grand Priz

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decimates the Corporation ' s " offshore " account, Juan Cabrillo and the crew of the Oregon find themselves unexpectedly vulnerable. Without his usual financial assets, Juan must trust a woman from his past, an old friend from his days with the CIA, to help him keep his team safe. Together, they ' ll face a mysterious hacker with a brutal vendetta. It is only after the hunt begins that the enormity of the plan comes into focus: the bank theft is just the first step in a plot that will result in the deaths of millions and bring the world ' s economies to a standstill. The catalyst for the scheme? A stunning document stolen during Napoleon ' s disastrous invasion of Russia. But two hundred years later, it may be the thing that brings Europe to its knees.

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Learn how to deploy and test Linux-based Docker containers with the help of real-world use cases

Key Features

Understand how to make a deployment workflow run smoothly with Docker containers

Learn Docker and DevOps concepts such as continuous integration and continuous deployment (CI/CD)

Gain insights into using various Docker tools and libraries

Book Description

Docker is the de facto standard for containerizing apps, and with an increasing number of software projects migrating to containers, it is crucial for engineers and DevOps teams to understand how to build, deploy, and secure Docker environments effectively. Docker for Developers will help you understand Docker containers from scratch while taking you through best

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practices and showing you how to address security concerns. Starting with an introduction to Docker, you'll learn how to use containers and VirtualBox for development. You'll explore how containers work and develop projects within them after you've explored different ways to deploy and run containers. The book will also show you how to use Docker containers in production in both single-host set-ups and in clusters and deploy them using Jenkins, Kubernetes, and Spinnaker. As you advance, you'll get to grips with monitoring, securing, and scaling Docker using tools such as Prometheus and Grafana. Later, you'll be able to deploy Docker containers to a variety of environments, including the cloud-native Amazon Elastic Kubernetes

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Service (Amazon EKS), before finally delving into Docker security concepts and best practices. By the end of the Docker book, you'll be able to not only work in a container-driven environment confidently but also use Docker for both new and existing projects. What you will learn Get up to speed with creating containers and understand how they work Package and deploy your containers to a variety of platforms Work with containers in the cloud and on the Kubernetes platform Deploy and then monitor the health and logs of running containers Explore best practices for working with containers from a security perspective Become familiar with scanning containers and using third-party security tools and libraries Who this book is for If you're a software

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engineer new to containerization or a DevOps engineer responsible for deploying Docker containers in the cloud and building DevOps pipelines for container-based projects, you'll find this book useful. This Docker containers book is also a handy reference guide for anyone working with a Docker-based DevOps ecosystem or interested in understanding the security implications and best practices for working in container-driven environments.

Advances in Energy Systems

Proceeding of CISC 2019

Principles of Power System

Risk-Based Thinking

Pilot Protective Relaying

Power Circuit Breaker Theory and
Design

The Fiendishly Fun Way to Master

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Electronic Circuits! Fully updated throughout, this wickedly inventive guide introduces electronic circuits and circuit design, both analog and digital, through a series of projects you'll complete one simple lesson at a time. The separate lessons build on each other and add up to projects you can put to practical use. You don't need to know anything about electronics to get started. A pre-assembled kit, which includes all the components and PC boards to complete the book projects, is available separately from ABRA electronics on Amazon. Using easy-to-find components and equipment, *Electronic Circuits for the Evil Genius, Second Edition*, provides hours of rewarding--and

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slightly twisted--fun. You'll gain valuable experience in circuit construction and design as you test, modify, and observe your results--skills you can put to work in other exciting circuit-building projects. **Electronic Circuits for the Evil Genius:** Features step-by-step instructions and helpful illustrations Provides tips for customizing the projects Covers the underlying electronics principles behind the projects Removes the frustration factor--all required parts are listed, along with sources Build these and other devious devices: Automatic night light Light-sensitive switch Along-to-digital converter Voltage-controlled oscillator Op amp-controlled power amplifier Burglar

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alarm Logic gate-based toy Two-way intercom using transistors and op amps Each fun, inexpensive Genius project includes a detailed list of materials, sources for parts, schematics, and lots of clear, well-illustrated instructions for easy assembly. The larger workbook-style layout and convenient two-column format make following the step-by-step instructions a breeze. Make Great Stuff! TAB, an imprint of McGraw-Hill Professional, is a leading publisher of DIY technology books for makers, hackers, and electronics hobbyists. The latest tested and proven strategies to maintain business resiliency and sustainability for our ever-growing global digital

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economy Here is a comprehensive study of the fundamentals of mission critical systems, which are designed to maintain ultra-high reliability, availability, and resiliency of electrical, mechanical, and digital systems and eliminate costly downtime. Readers learn all the skills needed to design, fine tune, operate, and maintain mission critical equipment and systems. Practical in focus, the text helps readers configure and customize their designs to correspond to their organizations' unique needs and risk tolerance. Specific strategies are provided to deal with a wide range of contingencies from power failures to human error to fire. In addition, the author highlights

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measures that are mandated by policy and regulation. The author of this text has worked in mission critical facilities engineering for more than twenty years, serving clients in banking, defense, utilities, energy, and education environments. His recommendations for maintaining essential operations are based on firsthand experience of what works and what does not. Most chapters in this text concentrate on an individual component of the mission critical system, including standby generators, automatic transfer switches, uninterruptible power supplies, and fuel, fire, and battery systems. For each component, the author sets forth applications,

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available models, design choices, standard operating procedures, emergency action plans, maintenance procedures, and applicable codes and standards. Extensive use of photographs and diagrams illustrates how individual components and integrated systems work. With the rapid growth of e-commerce and 24/7 business operations, mission critical systems have moved to the forefront of concerns among both private and public operations. Facilities engineers, senior administrators, and business continuity professionals involved in information technology and data center design should consult this text regularly to ensure they have

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done everything they can to protect and sustain their operations to reduce human error, equipment failures, and other critical events. Adapted from material the author has used in academic and professional training programs, this guide is also an ideal desktop reference and textbook.

If you want to develop faster and smarter cloud application, then WildFly is at your rescue. The book will teach you how to use WildFly Swarm and OpenShift to develop and deploy your applications in cloud environment emphasizing the benefits of those solutions: right-sizing the application, easy development and release process, on-demand ...

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Society at large tends to misunderstand what safety is all about. It is not just the absence of harm. When nothing bad happens over a period of time, how do you know you are safe? In reality, safety is what you and your people do moment by moment, day by day to protect assets from harm and to control the hazards inherent in your operations. This is the purpose of risk-based thinking, the key element of the six building blocks of Human and Organizational Performance (H&OP). Generally, H&OP provides a risk-based approach to managing human performance in operations. But, specifically, risk-based thinking enables foresight and

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flexibility—even when surprised—to do what is necessary to protect assets from harm but also achieve mission success despite ongoing stresses or shocks to the operation. Although you cannot prepare for every adverse scenario, you can be ready for almost anything. When risk-based thinking is integrated into the DNA of an organization's way of doing business, people will be ready for most unexpected situations. Eventually, safety becomes a core value, not a priority to be negotiated with others depending on circumstances. This book provides a coherent perspective on what executives and line managers within operational environments need to focus on to

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efficiently and effectively control,
learn, and adapt.

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to Smart Electric Power Grid

With examples in Java

Maintaining Mission Critical

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Code 2020 Handbook, 30th Edition

Mechanical and Electronics

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energy and utilities fields Advances in Energy Systems offers a stellar collection of articles selected from the acclaimed journal Wiley Interdisciplinary Review: Energy and Environment. The journal covers all aspects of energy policy, science and technology, environmental and climate change. The book covers a wide range of relevant issues related to the systemic changes for large-scale integration of renewable energy as part of the on-going energy transition. The book

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addresses smart energy systems technologies, flexibility measures, recent changes in the marketplace and current policies. With contributions from a list of internationally renowned experts, the book deals with the hot topic of systems integration for future energy systems and energy transition. This important resource:

Contains contributions from noted experts in the field Covers a broad range of topics on the topic of renewable energy Explores the technical impacts of

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high shares of wind and solar power Offers a review of international smart-grid policies Includes information on wireless power transmission Presents an authoritative view of micro-grids Contains a wealth of other relevant topics Written forenergy planners, energy market professionals and technology developers, Advances in Energy Systems is an essential guide with contributions from an international panel of experts that addresses the most recent smart energy

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technologies.

The book presents new approaches and methods for solving real-world problems. It highlights, in particular, innovative research in the fields of Cognitive Informatics, Cognitive Computing, Computational Intelligence, Advanced Computing, and Hybrid Intelligent Models and Applications. New algorithms and methods in a variety of fields are presented, together with solution-based approaches. The topics addressed include various

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theoretical aspects and applications of Computer Science, Artificial Intelligence, Cybernetics, Automation Control Theory, and Software Engineering. The future of Internet security doesn't lie in doing more of the same. It requires not only a new architecture, but the means of securing that architecture. Two trends have come together to make the topic of this book of vital interest. First, the explosive growth of the Internet connections for the exchange of information via networks

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increased the dependence of both organizations and individuals on the systems stored and communicated. This, in turn, has increased the awareness for the need to protect the data and add security as chief ingredient in the newly emerged architectures. Second, the disciplines of cryptography and network security have matured and are leading to the development of new techniques and protocols to enforce the network security in Future Internet. This book

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examines the new security architectures from organizations such as FIArch, GENI, and IETF and how they'll contribute to a more secure Internet. Presents the latest developments in switchgear and DC/DC converters for DC grids, and includes substantially expanded material on MMC HVDC This newly updated edition covers all HVDC transmission technologies including Line Commutated Converter (LCC) HVDC; Voltage Source Converter (VSC) HVDC, and the latest VSC HVDC based on Modular

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Multilevel Converters (MMC), as well as the principles of building DC transmission grids.

Featuring new material throughout, High Voltage Direct Current

Transmission: Converters, Systems and DC Grids, 2nd Edition offers several new chapters/sections including one on the newest MMC converters. It also provides extended coverage of switchgear, DC grid protection and DC/DC converters following the latest developments on the market and in research projects. All three HVDC

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technologies are studied in a wide range of topics, including: the basic converter operating principles; calculation of losses; system modelling, including dynamic modelling; system control; HVDC protection, including AC and DC fault studies; and integration with AC systems and fundamental frequency analysis. The text includes: A chapter dedicated to hybrid and mechanical DC circuit breakers Half bridge and full bridge MMC: modelling, control, start-up and fault management A

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chapter dedicated to unbalanced operation and control of MMC HVDC The advancement of protection methods for DC grids Wideband and high-order modeling of DC cables Novel treatment of topics not found in similar books, including SimPowerSystems models and examples for all HVDC topologies hosted by the 1st edition companion site. High Voltage Direct Current Transmission: Converters, Systems and DC Grids, 2nd Edition serves as an ideal textbook for a graduate-level course or a

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