1001 Computer Wheel Balancer Tech Tire Repairs

This proceedings volume explores the latest advances in transport and logistics, while also discussing the applications of modern information technologies, telecommunications, electronics, and prospective research methods and analyzing their impacts on society and the environment, which in turn determine the future development of these technologies. The book is intended for a broad readership, including transport and logistics business planners and technical experts, leveraging industry knowledge and facilitating technology adoption in promising business regions and transit corridors such as Ukraine, Kazakhstan, and others. The authors, who include policy planners and crafters as well as education and training professionals, address various types of intermodal transport such as rail, road, maritime, air, etc.

From the authors of the bestselling Hack Proofing Your Network! OPEC, Amazon, Yahoo! and E-bay: If these large, well-established and security-conscious web sites have problems, how can anyone be safe? How can any programmer expect to develop web applications that are secure? Hack Proofing Your Web Applications is the only book specifically written for application developers and webmasters who write programs that are used on web sites. It covers Java applications, XML, ColdFusion, and other database applications. Most hacking books focus on catching the hackers once they've entered the site; this one shows programmers how to design tight code that will deter hackers from the word go. Comes with up-to-the-minute web based support and a CD-ROM containing source codes and sample testing programs Unique approach: Unlike most hacking books this one is written for the application developer to help them build less vulnerable programs

Cloud computing promises to revolutionize IT and business by making computing available as a utility over the internet. This book is intended primarily for practising software architects who need to assess the impact of such a transformation. It explains the evolution of the internet into a cloud computing platform, describes emerging development paradigms and technologies, and discusses how these will change the way enterprise applications should be architected for cloud deployment. Gautam Shroff provides a technical description of cloud computing technologies, covering cloud infrastructure and platform services, programming paradigms such as MapReduce, as well as 'do-it-yourself' hosted development tools. He also describes emerging technologies critical to cloud computing. The book also covers the fundamentals of enterprise computing, including a technical introduction to enterprise architecture, so it will interest programmers aspiring to become software architects and serve as a reference for a graduate-level course in software architecture or software engineering.

Practical Recording Techniques, Second Edition is a hands-on, practical guide for beginning and intermediate recording engineers, producers, musicians, and audio enthusiasts--anyone who wants to make better recordings by understanding recording equipment and techniques. The book prepares the reader for work in a home studio, small professional studio, or an on-location recording session. The book offers up-to-date information on the latest recording technology, such as digital tape recording, hard-disk recording, keyboard and digital workstations, SMPTE, and MIDI. It also guides the beginner through the basics, showing how to make quality recordings with the new breed of inexpensive home-studio equipment. Other topics include: Choosing and operating recorder mixers based on cassette, Mini-Disc, and hard disk; Hum prevention; The latest monitoring methods; Microphone selection and placement; Audio-for-video techniques; Troubleshooting bad sound; guidelines for good sound. With its step-by-step approach and easy-to-read format, this is the ideal book for anyone who wants to create professional sound recordings.

Metal Cutting Theory and Practice

Know Your Network

The Only Way to Stop a Hacker Is to Think Like One

Pro PowerShell Desired State Configuration

A political marriage of convenience – stable and successful

Cluster and Grid Computing

Originally devised as a guide for converting from imperial to metric measurements, 'The Metric Handbook' has since been totally transformed into a major international handbook of planning and design data. The second edition has been completely updated, with most chapters being totally rewritten, to meet the needs of the modern designer. The book contains nearly 50 chapters dealing with all the principal building types from airports, factories and warehouses, offices shops and hospitals, to schools, religious buildings and libraries. For each building type 'The Metric Handbook' gives the basic design requirements and all the principal dimensional data. Several chapters deal with general aspects of building such as materials, lighting, acoustics and tropical design. There are also sections on general design data, including details of human dimensions and space requirements. It is a unique authoritative reference for solving everyday planning problems. In its various editions it has sold over 100,000 copies worldwide, and continues to be a reference work belonging on every design office desk or drawing board.

DAPSY (Austrian-Hungarian Workshop on Distributed and Parallel Systems) is an international conference series with biannual events dedicated to all aspects of distributed and parallel computing. DAPSY started under a different name in 1992 (Sopron, Hungary) as regional meeting of Austrian and Hungarian researchers focusing on transputer-related parallel computing; a hot research topic of that time. A second workshop followed in 1994 (Budapest, Hungary). As transputers became history, the scope of the workshop widened to include parallel and distributed systems in general and the 1st DAPSYS in 1996 (Miskolc, Hungary) reflected the results of these changes. Distributed and Parallel Systems: Cluster and Grid Computing is an edited volume based on DAPSYS, 2004, the 5th Austrian-Hungarian Workshop on Distributed and Parallel Systems. The workshop was held in conjunction with EuroPVM/MPI-2004, Budapest, Hungary September 19-22, 2004.

Put the power of AWS Cloud machine learning services to work in your business and commercial applications! Machine Learning in the AWS Cloud introduces readers to the machine learning (ML) capabilities of the Amazon Web Services ecosystem and provides practical examples to solve real-world regression and classification problems. While readers do not need prior ML experience, they are expected to have some knowledge of Python and a basic knowledge of Amazon Web Services. Part One introduces readers to fundamental machine learning concepts. You will learn about the types of ML systems, how they are used, and challenges you may face with ML solutions. Part Two focuses on machine learning services provided by Amazon Web Services. You'll be introduced to the basics of cloud computing and AWS offerings in the cloud-based machine learning space. Then you'll learn to use Amazon Machine Learning to solve a simpler class of machine learning problems, and Amazon SageMaker to solve more complex problems. • Learn techniques that allow you to preprocess data, basic feature engineering, visualizing data, and model building • Discover common neural network frameworks with Amazon SageMaker • Solve computer vision problems with Amazon Rekognition • Benefit from illustrations, source code examples, and sidebars in each chapter The book appeals to both Python developers and technical/solution architects. Developers will find concrete examples that show them how to perform common ML tasks with Python on AWS. Technical/solution architects will find useful information on the machine learning capabilities of the AWS ecosystem.

A Complete Reference Covering the Latest Technology in Metal Cutting Tools, Processes, and Equipment Metal Cutting Theory and Practice, Third Edition shapes the future of material removal in new and lasting ways. Centered on metallic work materials and traditional chip-forming cutting methods, the book provides a physical understanding of conventional and high-speed machining processes applied to metallic work pieces, and serves as a basis for effective process design and troubleshooting. This latest edition of a well-known reference highlights recent developments, covers the latest research results, and reflects current areas of emphasis in industrial practice. Based on the authors' extensive automotive production experience, it covers several structural changes, and includes an extensive review of computer aided engineering (CAE) methods for process analysis and design. Providing updated material throughout, it offers insight and understanding to engineers looking to design, operate, troubleshoot, and improve high quality, cost effective metal cutting operations. The book contains extensive up-to-date references to both scientific and trade literature, and provides a description of error mapping and compensation strategies for CNC machines based on recently issued international standards, and includes chapters on cutting fluids and gear machining. The authors also offer updated information on tooling grades and practices for machining compacted graphite iron, nickel alloys, and other hard-to-machine materials, as well as a full description of minimum quantity lubrication systems, tooling, and processing practices. In addition, updated topics include machine tool types and structures, cutting tool materials and coatings, cutting mechanics and temperatures, process simulation and analysis, and tool wear from both chemical and mechanical viewpoints. Comprised of 17 chapters, this detailed study: Describes the common machining operations used to produce specific shapes or surface characteristics Contains conventional and advanced cutting tool technologies Explains the properties and characteristics of tools which influence tool design or selection Clarifies the physical mechanisms which lead to tool failure and identifies general strategies for reducing failure rates and increasing tool life Includes common machinability criteria, tests, and indices Breaks down the economics of machining operations Offers an overview of the engineering aspects of MQL machining Summarizes gear machining and finishing methods for common gear types, and more Metal Cutting Theory and Practice, Third Edition emphasizes the physical understanding and analysis for robust process design, troubleshooting, and improvement, and aids manufacturing engineering professionals, and engineering students in manufacturing engineering and machining processes programs.

Road & Track

Proceedings of the First World Congress on Engineering Asset Management (WCEAM) 2006

Advanced Platform Development with Kubernetes

Russia and China

CryoTran User's Manual, Version 1.0

Energy Analysis of 108 Industrial Processes

This book includes over 30 real-life, up-to-date, award-winning case studies in scientific fields such as biotechnology, biomedicine, high-tech engineering and information technology. The case studies are arranged in modules that track the typical life cycle of creating and growing a new venture, which presents a comprehensive picture of entrepreneurial activities. The and style that managers will appreciate.

It is with great pleasure that we welcome you to the inaugural World Congress on Engineering Asset Management (WCEAM) being held at the Conrad Jupiters Hotel on the Gold Coast from July 11 to 14, 2006. More than 170 authors from 28 countries have contributed over 160 papers to be presented over the first three days of the conference. Day four will be held to the practice of various aspects of Engineering Asset Management. WCEAM is a new annual global forum on the various multidisciplinary aspects of Engineering Asset Management. It deals with the presentation and publication of outputs of research and development activities as well as the application of knowledge in the practical aspects of: strategic asset management asset management design and life-cycle integrity of physical assets asset performance and level of service models financial analysis methods for physical assets reliability modelling and prognostics information systems and knowledge management asset data management, warehousing and mining condition monitoring and intelligent maintenance intelligent sensors a standards in asset management human dimensions in integrated asset management education and training in asset management and performance management in asset management. We have attracted academics, practitioners and scientists from around the world to share their knowledge in this important emerging transdiscipline that impacts on almost every asp

Increased hydrogen supplies using cleaner methods are seen as essential for potential hydrogen based power systems for transportation and renewable energy conversion into fuel. This book provides a comprehensive picture of the various routes to use electricity to produce hydrogen using electrochemical science and technology. Edited by an expert in the field, t graduate students and researchers in academia and industry working in energy, electrochemistry, physical chemistry and chemical engineering.

FreeBSD and OpenBSD are increasingly gaining traction in educational institutions, non-profits, and corporations worldwide because they provide significant security advantages over Linux. Although a lot can be said for the robustness, clean organization, and stability of the BSD operating systems, security is one of the main reasons system administrators use these of books to help you get a FreeBSD or OpenBSD system off the ground, and all of them touch on security to some extent, usually dedicating a chapter to the subject. But, as security is commonly named as the key concern for today's system administrators, a single chapter on the subject can't provide the depth of information you need to keep your systems secur with security "building blocks" that you can put to use, and Mastering FreeBSD and OpenBSD Security shows you how. Both operating systems have kernel options and filesystem features that go well beyond traditional Unix permissions and controls. This power and flexibility is valuable, but the colossal range of possibilities need to be tackled one step at a time. Th installation of a hardened operating system, the installation and configuration of critical services, and ongoing maintenance of your FreeBSD and OpenBSD systems. Using an application-specific approach that builds on your existing knowledge, the book provides sound technical information on FreeBSD and Open-BSD security with plenty of real-world examples to hel secure system. By imparting a solid technical foundation as well as practical know-how, it enables administrators to push their server's security to the next level. Even administrators in other environments--like Linux and Solaris--can find useful paradigms to emulate. Written by security professionals with two decades of operating system experience, Mastering Fre features broad and deep explanations of how how to secure your most critical systems. Where other books on BSD systems help you achieve functionality, this book will help you more thoroughly secure your deployments.

Architecture of Network Systems

American Export Register

An In-Depth Guide to Windows PowerShell DSC

Diabetic Nephropathy

An International Case Perspective

Machine Learning in the AWS Cloud

This book constitutes the thoroughly refereed post-conference proceedings of the workshops held at the 37th International Symposium on Computer Architecture, ISCA 2010, in Saint-Malo, France, in June 2010. The 28 revised full papers presented were carefully reviewed and selected from the lectures given at 5 of these workshops. The papers address topics ranging from novel memory architectures to emerging application design and performance analysis and encompassed the following workshops: A4MMC, applications for multi- and many-cores; AMAS-BT, 3rd workshop on architectural and micro-architectural support for binary translation; EAMA, the 3rd Workshop for emerging applications and many-core architectures; WEED, 2nd Workshop on energy efficient design, as well as WIOSCA, the annual workshop on the interaction between operating systems and computer architecture.

Even small applications have dozens of components. Large applications may have thousands, which makes them challenging to install, maintain, and remove. Docker bundles all application components into a package called a container that keeps things tidy and helps manage any dependencies on other applications or infrastructure. Docker in Action, Second Edition teaches you the skills and knowledge you need to create, deploy, and manage applications hosted in Docker containers. This bestseller has been fully updated with new examples, best practices, and entirely new chapters. You'll start with a clear explanation of the Docker model and learn how to package applications in containers, including techniques for testing and distributing applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

Contains Applications for Home, Business & Educational Uses as Well as Games. Includes Programs, Printouts, Flowcharts, Diagrams & Illustrations

This book gathers the Proceedings of the 6th International Conference on Robot Intelligence Technology and Applications (RITA 2018). Reflecting the conference's main theme, "Robotics and Machine Intelligence: Building Blocks for Industry 4.0," it features relevant and current research investigations into various aspects of these building blocks. The areas covered include: Instrumentation and Control, Automation, Autonomous Systems, Biomechatronics and Rehabilitation Engineering, Intelligent Systems, Machine Learning, Robotics, Sensors and Actuators, and Machine Vision, as well as Signal and Image Processing. A valuable asset, the book offers researchers and practitioners a timely overview of the latest advances in robot intelligence technology and its applications.

Figuring Space

ICT Analysis and Applications

Proceedings of Third International Conference on ICTCS 2017

Network Security Assessment

Docker in Action

Distributed and Parallel Systems

This best-selling book introduces you to the principles of sound, perception, audio technology and systems. Whilst offering vital reading for audio students and trainee engineers, this guide is ideal for anyone concerned with audio, sound and recording, beginners and professionals alike. This new edition is bang up to date, with a new chapter on sound quality, expanded information on sequecing, rewire and digital audio synchonisation, pitch correction and blue ray disk.

This book depicts the sophisticated relationship between Russia and China as a pragmatic one, a political "marriage of convenience". Yet at the same time the relationship is stable, and will remain so. After all, bilateral relations are usually based on pragmatic interests and the pursuit of these interests is the very essence of foreign policy. And, as often happens in life, the most long-lasting marriages are those based on convenience. The highly complex, complicated, ambiguous and yet, indeed, successful relationship between Russia and China throughout the past 25 years is difficult to grasp theoretically. Russian and Chinese elites are hard-core realists in their foreign policies, and the neorealist school in international relations seems to be the most adequate one to research Sino-Russian relations. Realistically, throughout this period China achieved a multidimensional advantage over Russia. Yet, simultaneously Russia-China relations do not follow the patterns of power politics. Beijing knows its limits and does not go into extremes. Rather, China successfully seeks to build a longterm, stable relationship based on Chinese terms, where both sides gain, albeit China gains a little more. Russia in this agenda does not necessary lose; just gains a little less out of this asymmetric deal. Thus, a new model of bilateral relations emerges, which may be called – by paraphrasing the slogan of Chinese diplomacy – as "asymmetric win-win" formula. This model is a kind of "back to the past" – a contemporary equivalent of the first model of Russia-China relations: the modus vivendi from the 17th century, achieved after the Nerchinsk treaty.

Here is the most complete reference ever developed for identifying quantity and quality of industrial waste energy which may be economically practical to recover. Based on years of research, the detailed heat and material balances which are presented were developed from process flow diagrams of 108 industrial processes, with technical input from consultants and manufacturers, and extensive on-site verification studies. Data such as process temperature, pressure, fuel requirements, thermal efficiency and radiation, and convection losses are determined for varying industrial operations spanning the food products, textile, lumber and wood, paper, chemical, petroleum, rubber and plastics, glass, metals, machinery, transportation equipment, and instrument manufacturing industries.

Use Windows PowerShell Desired State Configuration (DSC) to configure your infrastructure on-premises and in the cloud. In an environment where changes and deployments are happening all the time, DSC makes the necessary adjustments to the system so you don't have to. Pro PowerShell Desired State Configuration (DSC) is a powerful configuration management platform that makes it easier than ever to perform configuration management of your infrastructure, whether on-premises or in the cloud. With Pro PowerShell Desired State Configuration, Ravikanth Chaganti revises and significantly expands his previous edition, bringing you a complete in-depth reference for applying this evolving technology in your day-to-day work. What's new in this edition? Get up-to-date, in-depth guidance on DSC in the data center Understand the central role that DSC plays in DevOps today Integrate DSC into build and release management tools Learn to think and act like a developer when automating your configuration management, creating a testable, robust process that you can use again and again Find out why and how DSC has an important role to play in public and private cloud deployments Apply DSC in the cloud with Microsoft Azure or Amazon Web Services or Google Cloud Platform Who This Book Is For IT administrators, developers and DevOps engineers working in Windows-based data center environments. With a little prior PowerShell scripting experience, this book can be used as an in-depth reference to creating, customizing, and extending DSC in Windows. IT administrators with limited scripting experience will also find this book a useful overview of what DSC offers and how to use DSC resources to automate configuration management and deployment.

Metric Handbook

Practical Recording Techniques

MacRae's Blue Book

Proceedings of ICT4SD 2019, Volume 2

High Availability and Scalability of Mainframe Environments Using System Z and Z/OS as Example

Hack Proofing Your Web Applications

Computer Networks: A Systems Approach, Fifth Edition, explores the key principles of computer networking, with examples drawn from the real world of network and protocol design. Using the Internet as the primary example, this best-selling and classic textbook explains various protocols and networking technologies. The systems-oriented approach encourages students to think about how individual network components fit into a larger, complex system of interactions. This book has a completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless,

network security, and network applications such as e-mail and the Web, IP telephony and video streaming, and peer-to-peer file sharing. There is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention. Other topics include network design and architecture; the ways users can connect to a network; the concepts of switching, routing, and internetworking; end-to-end protocols; congestion control and resource allocation; and end-to-end data. Each chapter includes a problem statement, which introduces issues to be examined; shaded sidebars that elaborate on a topic or introduce a related advanced topic; What's Next? discussions that deal with emerging issues in research, the commercial world, or society; and exercises. This book is written for graduate or upper-division undergraduate classes in computer networking. It will also be useful for industry professionals retraining for network-related assignments, as well as for network practitioners seeking to understand the workings of network protocols and the big picture of networking. Completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, security, and applications Increased focus on application layer issues where innovative and exciting research and design is currently the center of attention Free downloadable network simulation software and lab experiments manual available

This complete field guide, authorized by Juniper Networks, is the perfect hands-on reference for deploying, configuring, and operating Juniper's SRX Series networking device. Authors Brad Woodberg and Rob Cameron provide field-tested best practices for getting the most out of SRX deployments, based on their extensive field experience. While their earlier book, Junos Security, covered the SRX platform, this book focuses on the SRX Series devices themselves. You'll learn how to use SRX gateways to address an array of network requirements—including IP routing, intrusion detection, attack mitigation, unified threat management, and WAN acceleration. Along with case studies and troubleshooting tips, each chapter provides study questions and lots of useful illustrations. Explore SRX components, platforms, and various deployment scenarios Learn best practices for configuring SRX's core networking features Leverage SRX system services to attain the best operational state Deploy SRX in transparent mode to act as a Layer 2 bridge Configure, troubleshoot, and deploy SRX in a highly available manner Design and configure an effective security policy in your network Implement and configure network address translation (NAT) types Provide security against deep threats with AppSecure, intrusion protection services, and unified threat management tools

This book contains 74 papers presented at ICTCS 2017: Third International Conference on Information and Communication Technology for Competitive Strategies. The conference was held during 16-17 December 2017, Udaipur, India and organized by Association of Computing Machinery, Udaipur Professional Chapter in association with The Institution of Engineers (India), Udaipur Local Center and Global Knowledge Research Foundation. This book contains papers mainly focused on ICT for Computation, Algorithms and Data Analytics and IT Security etc.

This IBM® Redbooks® publication captures several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM System Storage® SAN Volume Controller and IBM Storwize® V7000 powered by IBM Spectrum VirtualizeTM V8.2.1. These practices are based on field experience. This book highlights configuration guidelines and preferred practices for the storage area network (SAN) topology, clustered system, back-end storage, storage pools and managed disks, volumes, remote copy services, and hosts. Then it provides performance guidelines for SAN Volume Controller, back-end storage, and applications. It explains how you can optimize disk performance with the IBM System Storage Easy Tier® function. It also provides preferred practices for monitoring, maintaining, and troubleshooting SAN Volume Controller and Storwize V7000. This book is intended for experienced storage, SAN, and SAN Volume Controller administrators and technicians. Understanding his book requires advanced knowledge of the SAN Volume Controller and Storwize V7000 and SAN environments. Important: On 11th February 2020 IBM announced the arrival of SAN Volume Controller SA2 and SV2, and IBM FlashSystem® 7200 to the family. This book was written specifically for prior versions of SVC and Storwize V7000; however, most of the general principles will apply. If you are in any doubt as to their applicability then you should work with your local IBM representative. This book will be updated to comprehensively include SAN Volume Controller SA2 and SV2 and FlashSystem 7200 in due course.

Linux System Administration

A Systems Approach

Electrochemical Methods for Hydrogen Production

Intelligent Control Systems Using Soft Computing Methodologies

Enabling Data Management, the Internet of Things, Blockchain, and Machine Learning

Information and Communication Technology for Competitive Strategies

This important text provides a single point of reference for state-of-the-art cloud computing design and implementation techniques. The book examines cloud computing from the perspective of enterprise architecture, asking the question; how do we realize new business potential with our existing enterprises? Topics and features: with a Foreword by Thomas Erl; contains contributions from an international selection of preeminent experts; presents the state-of-the-art in enterprise architecture approaches with respect to cloud computing models, frameworks, technologies, and applications; discusses potential research directions, and technologies to facilitate the realization of emerging business models through enterprise architecture approaches; provides relevant theoretical frameworks, and the latest empirical research findings.

A practical handbook for network adminstrators who need to develop and implement security assessment programs, exploring a variety of offensive technologies, explaining how to design and deploy networks that are immune to offensive tools and scripts, and detailing an efficient testing model. Original. (Intermediate)

Architecture of Network Systems explains the practice and methodologies that will allow you to solve a broad range of problems in system design, including problems related to security, quality of service, performance, manageability, and more. Leading researchers Dimitrios Serpanos and Tilman Wolf develop architectures for all network sub-systems, bridging the gap between operation and VLSI. This book provides comprehensive coverage of the technical aspects of network systems, including system-on-chip technologies, embedded protocol processing and high-performance, and low-power design. It develops a functional approach to network system architecture based on the OSI reference model, which is useful for practitioners at every level. It also covers both fundamentals and the latest developments in network systems architecture, including network-on-chip, network processors, algorithms for lookup and classification, and network systems for the next-generation Internet. The book is recommended for practicing engineers designing the architecture of network systems and graduate students in computer engineering and computer science studying network system design. This is the first book to provide comprehensive coverage of the technical aspects of network systems, including processing systems, hardware technologies, memory managers, software routers, and more. Develops a systematic approach to network architectures, based on the OSI reference model, that is useful for practitioners at every level. Covers both the important basics and cutting-edge topics in network systems architecture, including Quality of Service and Security for mobile, real-time P2P services, Low-Power Requirements for Mobile Systems, and next generation Internet systems.

In Figuring Space Gilles Châtelet seeks to capture the problem of intuition of mobility in philosophy, mathematics and physics. This he does by means of virtuality and intensive quantities (Oresme, Leibniz), wave-particle duality and perspective diagrams, philosophy of nature and Argand's and Grassman's geometric discoveries and, finally, Faraday's, Maxwell's and Hamilton's electrophilosophy. This tumultuous relationship between mathematics, physics and philosophy is presented in terms of a comparison between intuitive practices and Discursive practices. The following concepts are treated in detail: The concept of virtuality; thought experiments; diagrams; special relativity; German Naturphilosophie and `Romantic' science. Readership: The book does not require any considerable mathematical background, but it does insist that the reader quit the common instrumental conception of language. It will interest professional philosophers, mathematicians, physicists, and even younger scientists eager to understand the `unreasonable effectiveness of mathematics'.

1001 Things to Do with Your Macintosh

International Conference on Artificial Intelligence: Advances and Applications 2019

Computer Networks

Computer Architecture

RITA 2018

ISCA 2010 International Workshops A4MMC, AMAS-BT, EAMA, WEED, WIOSCA, Saint-Malo, France, June 19-23, 2010, Revised Selected Papers

Enterprise Cloud ComputingTechnology, Architecture, ApplicationsCambridge University Press

Leverage Kubernetes for the rapid adoption of emerging technologies. Kubernetes is the future of enterprise platform development and has become the most popular, and often considered the most robust, container orchestration system available today. This book focuses on platforming technologies that power the Internet of Things, Blockchain, Machine Learning, and the many layers of data and application management supporting them. Advanced Platform Development with Kubernetes takes you through the process of building platforms with these in-demand capabilities. You'll progress through the development of Serverless, CICD integration, data processing pipelines, event queues, distributed query engines, modern data warehouses, data lakes, distributed object storage, indexing and analytics, data routing and transformation, query engines, and data science/machine learning environments. You`ll also see how to implement and tie together numerous essential and trending technologies including: Kafka, NiFi, Airflow, Hive, Keycloak, Cassandra, MySQL, Zookeeper, Mosquitto, Elasticsearch, Logstash, Kibana, Presto, Mino, OpenFaaS, and Ethereum. The book uses Golang and Python to demonstrate the development integration of custom container and Serverless functions, including interaction with the Kubernetes API. The exercises throughout teach Kubernetes through the lens of platform development, expressing the power and flexibility of Kubernetes with clear and pragmatic examples. Discover why Kubernetes is an excellent choice for any individual or organization looking to embark on developing a successful data and application platform. What You'll Learn Configure and install Kubernetes and k3s on vendor-neutral platforms, including generic virtual machines and bare metal Implement an integrated development toolchain for continuous integration and deployment Use data pipelines with MQTT, NiFi, Logstash, Kafka and Elasticsearch Install a serverless platform with OpenFaaS Explore blockchain network capabilities with Ethereum Support a multi-tenant data science platform and web IDE with JupyterHub, MLflow and Seldon Core Build a hybrid cluster, securely bridging on-premise and cloud-based Kubernetes nodes Who This Book Is For System and software architects, full-stack developers, programmers, and DevOps engineers with some experience building and using containers. This book also targets readers who have started with Kubernetes and need to progress from a basic understanding of the technology and "Hello World" example to more productive, career-building projects.

In recent years, intelligent control has emerged as one of the most active and fruitful areas of research and development. Until now, however, there has been no comprehensive text that explores the subject with focus on the design and analysis of biological and industrial applications. Intelligent Control Systems Using Soft Computing Methodologies does all that and more. Beginning with an overview of intelligent control methodologies, the contributors present the fundamentals of neural networks, supervised and unsupervised learning, and recurrent networks. They address various implementation issues, then explore design and verification of neural networks for a variety of applications, including medicine, biology, digital signal processing, object recognition, computer networking, desalination technology, and oil refinery and chemical processes. The focus then shifts to fuzzy logic, with a review of the fundamental and theoretical aspects, discussion of implementation issues, and examples of applications, including control of autonomous underwater vehicles, navigation of space vehicles, image processing, robotics, and energy management systems. The book concludes with the integration of genetic algorithms into the paradigm of soft computing methodologies, including several more industrial examples, implementation issues, and open problems and open problems related to intelligent control technology. Suitable as a textbook or a reference, Intelligent Control Systems explores recent advances in the field from both the theoretical and the practical viewpoints. It also integrates intelligent control design methodologies to give designers a set of flexible, robust controllers and provide students with a tool for solving the examples and exercises within the book.

This book provides a toolkit of novel research approaches for investigators to study diabetic nephropathy, including critical experimental models from the fly to the fish, cells in culture, and in vivo mammalian approaches. The collection also explores powerful techniques to image the kidney, such as traditional histological techniques as well as electron, confocal, and two-photon microscopy, pathophysiology of the diabetic kidney, and gene editing and regenerative medicine. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Diabetic Nephropathy: Methods and Protocols seeks to foster new research directions and inspire ideas to enhance our understanding of diabetic nephropathy and to develop treatments for this condition.

an introduction

Proceedings of ICAIAA 2019

Engineering Asset Management

Sound and Recording

IBM System Storage SAN Volume Controller, IBM Storwize V7000, and IBM FlashSystem 7200 Best Practices and Performance Guidelines

Enterprise Cloud Computing

Vols. for 1970-71 includes manufacturers' catalogs.

A guide geared toward seasoned Linux and Unix administrators offers practical knowledge for managing a range of Linux systems and servers, covering such topics as installing servers, setting up e-mail systems, and creating shell scripts.

This book introduces research presented at the "International Conference on Artificial Intelligence: Advances and Applications-2019 (ICAIAA 2019)," a two-day conference and workshop bringing together leading academicians, researchers as well as students to share their experiences and findings on all aspects of engineering applications of artificial intelligence. The book covers research in the areas of artificial intelligence, machine learning, and deep learning applications in health care, agriculture, business and security. It also includes research in core concepts of computer networks, intelligent system design and deployment, real-time systems, WSN, sensors and sensor nodes, SDN and NFV. As such it is a valuable resource for students, academics and practitioners in industry working on AI applications.

This book proposes new technologies and discusses future solutions for ICT design infrastructures, as reflected in high-quality papers presented at the 4th International Conference on ICT for Sustainable Development (ICT4SD 2019), held in Goa, India, on 5–6 July 2019. The conference provided a valuable forum for cutting-edge research discussions among pioneering researchers, scientists, industrial engineers, and students from all around the world. Bringing together experts from different countries, the book explores a range of central issues from an international perspective.

Thomas Register of American Manufacturers and Thomas Register Catalog File

Add Intelligence to Applications with Amazon SageMaker and Amazon Rekognition

Nurturing Science-based Ventures

Cloud Computing for Enterprise Architectures

Proceedings of the 6th International Conference on Robot Intelligence Technology and Applications