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IoT/AI Control of VRF Distributed Building Air-Conditioners Smart Green Innovations in Industry 4.0 for Climate Change Risk Management Annual Review of Communications: Volume 59 Implementation of IBM j-type Ethernet Switches and Routers HVAC - Variable Refrigerant Flow (VRF) Systems Data Center Virtualization Fundamentals A Network Architect's Guide to 5G Network Convergence Monopoly Problems in Regulated Industries Rock and Popular Music Design and Use of Virtualization Technology in Cloud Computing Building Services Journal Building Services Quantity Surveying: A Comprehensive Guide Design of Secure IoT Systems: A Practical Approach Across Industries IoT/AI Control of VRF Distributed Building Air-conditioners CCDA 640-864 Official Cert Guide Guide to Reliable Internet Services and Applications International Micrographics Source Book Energy Management in Industry Industrial Cybersecurity The Media and Communications in Australia Integration Guide for IBM Tivoli Netcool/OMNIBus, IBM Tivoli Network Manager, and IBM Tivoli Netcool Configuration Manager CCNP Routing and Switching Quick Reference (642-902, 642-813, 642-832) Popular Mechanics Making Health Services More Accessible in Developing Countries Spon's Mechanical and Electrical Services Price Spon's Mechanical and Electrical Services Price Book 2011 Guideline for Building Services Design Inspired by the Cradle to Cradle Concept CITY MULTI® Catalog Network Dictionary Cisco Software-Defined Access Ward's Business Directory of U.S. Private and Public Companies California Services Register Additive Manufacturing in Industry 4.0 Guidelines for Development of a Home Industry Federal Register Network Programmability with YANG A Back and Forth between Tourism and Health ISC2 CISSP Certified Information Systems Security Professional Official Practice Tests Managing IoT Systems for Institutions and Cities

Health is increasingly a critical concern in the context of development. This book examines the function of health systems, particularly the key factors: finance, human resources, pharmaceuticals, public facilities and stresses the importance of improving access to health services in developing countries. Today, networks must evolve and scale faster than ever. You can't manage everything by hand anymore: You need to automate relentlessly. YANG, along with the NETCONF, RESTCONF, or gRPC/gNMI protocols, is the most practical solution, but most implementers have had to learn by trial and error. Now, Network Programmability with YANG gives you complete and reliable guidance for unlocking the full power of network automation using model-driven APIs and protocols. Authored by three YANG pioneers, this plain-spoken book guides you through successfully applying software practices based on YANG data models. The authors focus on the network operations layer, emphasizing model-driven APIs, and underlying transports. Whether you're a network operator, DevOps engineer, software developer, orchestration engineer, NMS/OSS architect, service engineer, or manager, this guide can help you dramatically improve value, agility, and manageability throughout your network. Discover the value of implementing YANG and Data Model-Driven Management in your network Explore the layers and components of a complete working solution Build a business case where value increases as your solution grows Drill down into transport protocols: NETCONF, RESTCONF, and gNMI/gRPC See how telemetry can establish a valuable automated feedback loop Find data models you can build on, and evaluate models with similar functionality Understand models, metadata, and tools from several viewpoints: architect, operator, module author, and application developer Walk through a complete automation journey: business case, service model, service implementation, device integration, and operation Leverage the authors' experience to design successful YANG models and avoid pitfalls Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. This book describes new energy service controls of VRF (Variable Refrigerant Flow) air-conditioners, i.e., distributed-type air-conditioners for commercial buildings in the near future, in the context of the energy savings for CO2 reduction and the reform of the electric power system. In other words, this book introduces the state-of-the-art technology of the next-generation distributed building air-conditioning energy service system, from IoT cloud control to AI optimal control, as well as standards for the smart grid supply and demand adjustment market. Rather than simple saving energy by On Off operations or shifting set- temperatures, the author proposes technology that sends numerical commands for the air-conditioner inverters directly from the cloud. By using this innovative IoT method, this book describes how to realize the AI optimal cloud control as a cluster of air-conditioners while machine-learning of each air conditioner's situation. An oft-repeated adage among telecommunication providers goes, "There are ve things that matter: reliability, reliability, reliability, time to market, and cost. If you can't do all ve, at least do the rst three. " Yet, designing and operating reliable networks and services is a Herculean task. Building truly reliable components is unacceptably expensive, forcing us to c- struct reliable systems out of unreliable components. The resulting systems are inherently complex, consisting of many different kinds of components running a variety of different protocols that interact in subtle ways. Inter-networkssuch as the Internet span multiple regions of administrative control, from campus and cor- rate networks to Internet Service Providers, making good end-to-end performance a shared responsibility borne by sometimes uncooperative parties. Moreover, these networks consist not only of routers, but also lower-layer devices such as optical switches and higher-layer components such as rewalls and proxies. And, these components are highly configurable, leaving ample room for operator error and buggy software. As if that were not dif cult enough, end users understandably care about the performance of their higher-level applications, which has a complicated relationship with the behavior of the underlying network. Despite these challenges, researchers and practitioners alike have made trem- dous strides in improving the reliability of modern networks and services. This book is devoted to strengthening the theoretical and methodological basis, systematization of international experience, and scientific elaboration of prospects for developing a climate-smart economy and business as a vector of the sustainable development of Industry 4.0 in the Decade of Action. The first part of the book focuses on climate-responsible entrepreneurship in support of the sustainable development of Industry 4.0. The part systematizes best practices for climate-smart green innovations across sectors of the digital economy. The third part reveals the experience of climate risk management based on smart green innovations in regions and countries. Particular attention is paid to the best practices of the European Union (EU) and the Eurasian Economic Union (EAEU). The book ends with part four, which explores ESG climate risk management and green finance in support of combating climate change. The book's novelty is that it rethinks the environmental footprints of Industry 4.0 from the perspective of climate risks and their management. The theoretical significance of the book lies in the formation of an innovative concept of climate change risk management, in which the economy, society, nature, and technology are presented and interact effectively. The book is intended for scientists. In this book, they will find an innovative and systemic vision of smart green innovations in Industry 4.0 for climate change risk management. SPON'S MECHANICAL AND ELECTRICAL SERVICES PRICE BOOK continues to be the most comprehensive and best annual services engineering price book currently available, providing detailed pricing information across the full range of mechanical and electrical services, together with higher-level costs for a diverse range of systems and different building ap Traditional media are being reshaped by digital technologies. The funding model for quality journalism has been undermined by the drift of advertising online, demarcations between different forms of media are rapidly fading, and audiences have fragmented. We can catch up with our favourite TV show on a tablet, social media can be more important than mainstream radio in a crisis, and organisations large and small have become publishers in their own right on apps. Nevertheless mainstream media remain powerful. The Media and Communications in Australia offers a systematic introduction to this dynamic field. Fully updated and revised to take account of recent developments, this fourth edition outlines the key media industries and explains how communications technologies are impacting on them. It provides a thorough overview of the main approaches taken in studying the media, and includes an expanded 'issues' section with new chapters on social media, gaming, apps, the environment, media regulation, ethics and privacy. With contributions from some of Australia's best researchers and teachers in the field, The Media and Communications in Australia remains the most comprehensive and reliable introduction to media and communications available. It is an ideal student text, and a reference for teachers of media and anyone interested in this influential industry. VRF (Variable refrigerant flow) is an air-condition system configuration where there is one outdoor condensing unit and multiple indoor units. The term variable refrigerant flow (VRF) refers to the ability of the system to control the amount of refrigerant flowing to the multiple evaporators (indoor units), enabling the use of many evaporators of differing capacities and configurations connected to single condensing unit. The arrangement provides an individualized comfort control, and simultaneous heating and cooling in different zones. Currently widely applied in large buildings especially in Japan and Europe, these systems are just starting to be introduced in the U.S. The VRF technology/system was developed and designed by Daikin Industries, Japan who named and protected the term variable refrigerant volume (VRV) system so other manufacturers use the term VRF "variable refrigerant flow". In essence both are same. With a higher efficiency and increased controllability, the VRF system can help achieve a sustainable design. Unfortunately, the design of VRF systems is more complicated and requires additional work compared to designing a conventional direct expansion (DX) system. This 3 -hour quick book provides an overview of VRF system technology. Emphasis is placed on the control principles, terminology, basic components, advantages and design limitations. This course is aimed at the personnel who have some limited background in the air conditioning field and is suitable for mechanical, electrical, controls and HVAC engineers, architects, building designers, contractors, estimators, energy auditors and facility managers. The course includes a multiple-choice quiz consisting of fifteen (15) questions at the end. Learning ObjectiveAt the conclusion of this course, the reader will: \* Understand the difference between multi-split air conditioning system and VRF systems;\* Understand the operating principle of direct expansion split and VRF system;\* Understand the concept of thermal zone;\* Understand how VRF with heat recovery are different from ordinary heat pump systems;\* Understand the operation of thermostatic expansion valve (TXV) and electronic expansion valve (EEV);\* Understand the influence of building characteristics and load profile on selection of VRF system;\* Learn the advantages and application of VRF systems;\* Understand the design limitations and challenges in design of VRF systems. The Cradle to Cradle ("C2C") concept is a biomimetic approach that models human industry on nature's processes, viewing materials as nutrients circulating in healthy and safe metabolisms. It seeks to create systems that are not only efficient but also essentially waste free. A growing number of building owners and developers are looking to implement it in their buildings, be it to increase the productivity of their workforce, or to provide a differentiator. The C2C concept is reasonably covered in building construction; however, it is a rather uncharted area in building services, making it difficult for MEP engineers to develop C2C-inspired designs. Arup set out to bridge this gap, establishing how C2C-inspired design would look like in the different MEP disciplines, and researching which systems, products and materials are available in the market to meet the corresponding criteria. The result is a comprehensive guideline that enables MEP engineers to develop a C2C-inspired design. It covers design criteria, system selection, system sizing, design for deconstruction, as well as material and product selection for the main MEP disciplines, and sets out a number of criteria by which the aptness of a design for C2C can be measured. Full-length practice tests covering all CISSP domains for the ultimate CISSP prep The ISC2 CISSP Official Practice Tests is a major resource for ISC2 Certified Information Systems Security Professional (CISSP) candidates, providing 1300 unique practice questions. The first part of the book provides 100 questions per domain. You also have access to four unique 125-question practice exams to help you master the material. As the only official practice tests endorsed by ISC2, this book gives you the advantage of full and complete preparation. These practice tests align with the 2024 version of the CISSP Detailed Content Outline to ensure up-to-date preparation, and are designed to cover what you will see on exam day. Coverage includes: Security and Risk Management, Asset Security, Security Architecture and Engineering, Communication and Network Security, Identity and Access Management (IAM), Security Assessment and Testing, Security Operations, and Software Development Security. The CISSP credential signifies a body of knowledge and a set of guaranteed skills that put you in demand in the marketplace. This book is your ticket to achieving this prestigious certification, by helping you test what you know against what you need to know. Test your knowledge of the 2024 CISSP domains Identify areas in need of further study Gauge your progress throughout your study and preparation Practice test taking with Sybex's online test environment containing the questions from the book The CISSP objectives are refreshed every few years to ensure that candidates are up-to-date on the latest security topics and trends. Currently-aligned preparation resources are critical, and periodic practice tests are one of the best ways to truly measure your level of understanding. Build secure IoT devices and networks for a wide range of industries This practical guide fully explains the technology behind the Internet of Things, machine-to-machine communication, and automation. Written by a team of experts from leading firms, Design of Secure IoT Systems: A Practical Approach Across Industries covers all aspects of system architecture, protocols, requirements, and design. You will discover how to design and engineer IoT devices and networks with trust and security. The book features industrial automation case studies and simulation examples from a wide range of fields. Coverage includes: IoT architecture and technology fundamentals Connected machines and M2M communication Network protocols and architecture IoT hardware design fundamentals WAN, IP, and MAC configuration IoT data systems design Designing with trust and security Data security policies and regulations Cybersecurity threats and risks Automation Use cases across industries Industry compliance and standards An indispensable reference publication for telecommunication and information-industry professionals. Each year, the IEC brings together into one unique resource the most current thinking and practical experience of industry leaders around the world on a variety of topics facing their areas of specialization. This 700+ page reference tool is a must for executives, managers, engineers, analysts, and educators in all sectors of today's changing information industry. Whether the reader is the biggest technology geek or simply a computer enthusiast, this integral reference tool can shed light on the terms that'll pop up daily in the communications industry. (Computer Books - Communications/Networking). This book defines what IoT Systems manageability looks like and what the associated resources and costs are of that manageability. It identifies IoT Systems performance expectations and addresses the difficult challenges of determining actual costs of IoT Systems implementation, operation, and management across multiple institutional organizations. It details the unique challenges that cities and institutions have in implementing and operating IoT Systems. "An essential reference for everybody concerned with the calculation of costs of mechanical and electrical works." – Cost Engineer Market conditions remain unfavourable and construction output and orders obtained by contractors continue to decline. The costs of some items have increased, but profits and overheads have fallen and are expected to fall further in the coming year. But price changes have varied across the industry. Spon's Mechanical and Electrical Services Price Book 2010 continues to be the most comprehensive and best annual services engineering price book currently available, providing detailed pricing information across the full range of mechanical and electrical services, together with higher level costs for a diverse range of systems and different building applications. This year's book provides an overhaul of the unit rates and composite rates. It contains a new section on the Façade System in engineering features which explains the relationship between the building envelope and the provision of cooling And the new series of topical features continues, focusing on subjects which affect M&E costs within buildings; and design schematics are provided for several M&E services. All the standard features you have come to expect from Spon's M & E are also included, considered essential for today's services cost professional: Detailed materials prices, labour constants, labour costs and measured work prices for mechanical and electrical works, from above ground drainage to automatic transfer switches, and circuit breakers to sprinkler systems. An extensive Approximate Estimating section for quick, rule-of-thumb pricing of mechanical or electrical installations, together with elemental services costs for different types and standard of buildings. Full details of wage rates, daywork and cost indices on a national and Central London basis. An overhauled index and guidance notes. Updated, free of charge, every four months – see enclosed card to register. Updates are available online at www.pricebooks.co.uk Buyers of this 2010 edition can make a free internet download of Spon's Mechanical & Electrical Services price data data, which will run to the end of 2010 and: produce estimate and tender documents generate priced or unpriced schedules adjust rates and data and enter rogue items export schedules into Excel carry out an index search This year, for the first time, the download includes a versatile and powerful ebook. Welcome to "Building Services Quantity Surveying: A Comprehensive Guide." This book aims to serve as a valuable resource for

professionals, students, and anyone interested in the intricate world of quantity surveying within the context of building services. In the construction industry, the efficient management of building services is crucial for the success of any project. Quantity surveyors play a pivotal role in ensuring that these services are not only delivered to the highest standards but also within budgetary constraints. This book delves into the multifaceted aspects of quantity surveying specific to building services, providing insights, strategies, and practical tools to navigate this specialized field. Throughout these pages, you will find a comprehensive exploration of the pre-contract, procurement, post-contract, and cost management phases, tailored to the unique requirements of building services projects. Additionally, emerging trends, technological advancements, and real-world case studies are presented to offer a holistic understanding of the subject matter. As the construction industry evolves, so too does the role of quantity surveyors. It is my hope that this book not only equips readers with the necessary knowledge and skills but also inspires ongoing learning and professional development. Whether you are a seasoned practitioner seeking to enhance your expertise or a newcomer aspiring to enter this dynamic field, "Building Services Quantity Surveying" strives to be your indispensable companion. Thank you for embarking on this journey with me. Let us delve into the intricacies of building services quantity surveying and unlock the pathways to success together.

**Network Convergence: Ethernet Applications and Next Generation Packet Transport Architectures** provides the guidance and solutions you'll need to understand Ethernet and emerging applications such as cloud computing and mobile apps, as well as large-scale retail and business deployments. This reference starts with an overview of the Ethernet and existing broadband architectures, including XDSL, WIMAX, and VLANs. It moves on to cover next-generation networks and mobile architectures, as well as cloud computing. The book also addresses the convergence of optical, Ethernet and IP/MPLS layers, considered to be the backbone of next-generation packet transport architecture. If you're a network designer or architect, a technical sales professional, or if you're pursuing technical certifications, you will benefit from Network Convergence's fundamental information on this rapidly evolving technology. Discusses architectural nuances and includes practical case studies for deploying the next-generation framework for each service type Explains data center and cloud computing interconnect schemes for building next-generation cloud infrastructures that support a new array of requirements Provides configuration schemes from leading vendors, including Cisco, Juniper and Alcatel When it comes to providing personalized comfort in every room of every building, we are here to help. No other company is as committed to creating environmentally friendly and affordable HVAC zoning technology that's ideal for today's home and work environments, no matter the size or shape. Get the CITY MULTI® catalog to learn more about our applied Variable Refrigerant Flow products and solutions. Data Center Virtualization Fundamentals For many IT organizations, today's greatest challenge is to drive more value, efficiency, and utilization from data centers. Virtualization is the best way to meet this challenge. Data Center Virtualization Fundamentals brings together the comprehensive knowledge Cisco professionals need to apply virtualization throughout their data center environments. Leading data center expert Gustavo A. A. Santana thoroughly explores all components of an end-to-end data center virtualization solution, including networking, storage, servers, operating systems, application optimization, and security. Rather than focusing on a single product or technology, he explores product capabilities as interoperable design tools that can be combined and integrated with other solutions, including VMware vSphere. With the author's guidance, you'll learn how to define and implement highly-efficient architectures for new, expanded, or retrofitted data center projects. By doing so, you can deliver agile application provisioning without purchasing unnecessary infrastructure, and establish a strong foundation for new cloud computing and IT-as-a-service initiatives. Throughout, Santana illuminates key theoretical concepts through realistic use cases, real-world designs, illustrative configuration examples, and verification outputs. Appendixes provide valuable reference information, including relevant Cisco data center products and CLI principles for IOS and NX-OS. With this approach, Data Center Virtualization Fundamentals will be an indispensable resource for anyone preparing for the CCNA Data Center, CCNP Data Center, or CCIE Data Center certification exams. Gustavo A. A. Santana, CCIE® No. 8806, is a Cisco Technical Solutions Architect working in enterprise and service provider data center projects that require deep integration across technology areas such as networking, application optimization, storage, and servers. He has more than 15 years of data center experience, and has led and coordinated a team of specialized Cisco engineers in Brazil. He holds two CCIE certifications (Routing & Switching and Storage Networking), and is a VMware Certified Professional (VCP) and SNIA Certified Storage Networking Expert (SCSN-E). A frequent speaker at Cisco and data center industry events, he blogs on data center virtualization at [gustavoasantana.net](http://gustavoasantana.net). Learn how virtualization can transform and improve traditional data center network topologies Understand the key characteristics and value of each data center virtualization technology Walk through key decisions, and transform choices into architecture Smoothly migrate existing data centers toward greater virtualization Burst silos that have traditionally made data centers inefficient Master foundational technologies such as VLANs, VRF, and virtual contexts Use virtual PortChannel and FabricPath to overcome the limits of STP Optimize cabling and network management with fabric extender (FEX) virtualized chassis Extend Layer 2 domains to distant data center sites using MPLS and Overlay Transport Virtualization (OTV) Use VSANs to overcome Fibre Channel fabric challenges Improve SAN data protection, environment isolation, and scalability Consolidate I/O through Data Center Bridging and FCoE Use virtualization to radically simplify server environments Create server profiles that streamline "bare metal" server provisioning "Transcend the rack" through virtualized networking based on Nexus 1000V and VM-FEX Leverage opportunities to deploy virtual network services more efficiently Evolve data center virtualization toward full-fledged private clouds -Reviews - "The variety of material that Gustavo covers in this work would appeal to anyone responsible for Data Centers today. His grasp of virtualization technologies and ability to relate it in both technical and non-technical terms makes for compelling reading. This is not your ordinary tech manual. Through use of relatable visual cues, Gustavo provides information that is easily recalled on the subject of virtualization, reaching across Subject Matter Expertise domains. Whether you consider yourself well-versed or a novice on the topic, working in large or small environments, this work will provide a clear understanding of the diverse subject of virtualization." -- Bill Dufresne, CCIE 4375, Distinguished Systems Engineer, Cisco (Americas) "...this book is an essential reference and will be valuable asset for potential candidates pursuing their Cisco Data Center certifications. I am confident that in reading this book, individuals will inevitably gain extensive knowledge and hands-on experience during their certification preparations. If you're looking for a truly comprehensive guide to virtualization, this is the one!" -- Yusuf Bhajji, Senior Manager, Expert Certifications (CCIE, CCDE, CCAr), Learning@Cisco "When one first looks at those classic Cisco Data Center blueprints, it is very common to become distracted with the overwhelming number of pieces and linkages. By creating a solid theoretical foundation and providing rich sets of companion examples to illustrate each concept, Gustavo's book brings hope back to IT Professionals from different areas of expertise. Apparently complex topics are demystified and the insertion of products, mechanisms, protocols and technologies in the overall Data Center Architecture is clearly explained, thus enabling you to achieve robust designs and successful deployments. A must read... Definitely!" -- Alexandre M. S. P. Moraes, Consulting Systems Engineer -- Author of "Cisco Firewalls" As a final preparation tool providing a review of CCNP exam topics, the CCNP Quick Reference 2/e complements official Cisco curriculum, other books, or other exam preparatory material in a candidates preparation for the four CCNP exams. This concise guide provides you with detailed, graphical-based information, highlighting only the key topics on the latest CCNP exams in a review-style format. This fact-filled Quick Reference allows you to get all-important information at a glance, helping you to focus your study on areas of weakness and to enhance memory retention of important concepts. This book provides a comprehensive final review for candidates taking any of the CCNP exams. It steps through exam objectives one-by-one, providing concise and accurate review for all topics. Using this book, you will be able to easily and effectively review test objectives without having to wade through numerous books and documents for relevant content for final review. IBM® j-type data center solutions running Junos software (from Juniper Networks) provide operational agility and efficiency, dramatically simplifying the network and delivering savings. With this solution, a network design has fewer devices, interconnections, and network tiers. Beyond the cost advantages, the design offers the following key benefits: Reduces latency Simplifies device management Delivers significant power, cooling, and space savings Eliminates multiple system failure points Performs pervasive security The high-performance data center is built around IBM j-type e-series Ethernet switches, m-series routers, and s-series firewalls. This new family of powerful products helps to shape the next generation of dynamic infrastructure. IBM j-type e-series Ethernet switches meet escalating demands while controlling costs. IBM j-type m-series Ethernet routers are high-performance routers with powerful switching and security capabilities. This IBM Redbooks® publication targets IT professionals who sell, design, or administer IBM j-type networking solutions. It provides information about IBM j-type Ethernet switches and routers and includes the following topics: Introduction to Ethernet fundamentals and IBM j-type Ethernet switches and routers Initial hardware planning and configuration Other configuration topics including Virtual Chassis configuration, Layer 1, Layer 2, and Layer 3 configurations, and security features Network management features of Junos software and maintenance of the IBM j-type series hardware This IBM® Redbooks® publication covers the integration scenarios for IBM Tivoli® Network Manager, IBM Tivoli Netcool/OMNIBus, and IBM Tivoli Netcool® Configuration Manager. These three products working together provide a comprehensive solution for network and event management, and network configuration management, within the context of service availability and performance management. Tivoli Network Manager and Tivoli Netcool/OMNIBus are long established products in the IBM portfolio. Tivoli Netcool Configuration Manager (from the Intellident acquisition) is a new product in the portfolio and provides a comprehensive network configuration and change management solution and a policy-based network compliance solution for managing network devices in complex, rapidly changing environments. This book describes practical examples and use cases where these products work together to address network configuration management and event management requirements. IT architects and IT specialists working on integrating these Tivoli products in real life environments will benefit from this book. Health is an often-overlooked issue in the touristic development of territories. However, the recent pandemic linked to Covid-19, by bringing the tourism sector to a halt, has revealed the importance of health issues for this economic sector. This book deals with the interaction between tourism and health in all its facets and offers a complete overview of the subject, the beginnings of which date back to Antiquity. The arguments presented here are based on a back-and-forth approach between tourism studies and health sciences. Various themes are thus addressed, such as health risks, health issues for travellers linked to tourism practices, medical tourism, health mobility and the global processes that accompany it, as well as the impact of tourism development on public health in destinations. A Back and Forth Between Tourism and Health highlights the need to include the health dimension in tourism planning and invites a paradigm shift in thinking about the tourism sector. Energy demand reduction is fast becoming a business activity for all companies and organisations because it can increase profits regardless of the nature of their core activity. The International Energy Agency believes that industry could improve its energy efficiency and reduce carbon dioxide emissions by almost a third using the best available practices and technologies. This guide looks at the many ways available to energy managers to achieve or even exceed this level of performance, including: base-lining consumption planning a monitoring and verification strategy metering (including smart, wireless metering) energy supply management motors and drives compressed air and process controls. Uniquely, it includes a whole chapter on greening data centres. It also looks at topics covered in greater detail in its companion volume, Energy Management in Buildings: insulation, lighting, renewable heating, cooling and HVAC systems. Further chapters examine minimising water use and how to make the financial case, both to prioritise measures for cost effectiveness, and to get management on board. This title is aimed at all professional energy, industry and facilities managers, energy consultants, students, trainees and academics and can be read alongside training for ISO 50001 - Energy Management Systems. It takes the reader from basic concepts to the latest advanced thinking, with principles applicable anywhere in the world and in any climate. This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Trust the best selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. CCDA 640-864 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Master Cisco CCDA 640-864 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks CCDA 640-864 Official Cert Guide, focuses specifically on the objectives for the Cisco CCDA DESGN exam. Expert networking consultants Anthony Bruno and Steve Jordan share preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. Well-regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The official study guide helps you master all the topics on the CCDA DESGN exam, including: Network design methodology Network structure models Enterprise LAN and data center design Enterprise network virtualization Wireless LAN design WAN technologies and design IPv4 and IPv6 RIP, EIGRP, OSPF, and BGP Route summarization and route filtering Security solutions Voice and video design Network management protocols CCDA 640-864 Official Cert Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining). A second edition filled with new and improved content, taking your ICS cybersecurity journey to the next level Key Features Architect, design, and build ICS networks with security in mind Perform a variety of security assessments, checks, and verifications Ensure that your security processes are effective, complete, and relevant Book DescriptionWith Industrial Control Systems (ICS) expanding into traditional IT space and even into the cloud, the attack surface of ICS environments has increased significantly, making it crucial to recognize your ICS vulnerabilities and implement advanced techniques for monitoring and defending against rapidly evolving cyber threats to critical infrastructure. This second edition covers the updated Industrial Demilitarized Zone (IDMZ) architecture and shows you how to implement, verify, and monitor a holistic security program for your ICS environment. You'll begin by learning how to design security-oriented architecture that allows you to implement the tools, techniques, and activities covered in this book effectively and easily. You'll get to grips with the monitoring, tracking, and trending (visualizing) and procedures of ICS cybersecurity risks as well as understand the overall security program and posture/hygiene of the ICS environment. The book then introduces you to threat hunting principles, tools, and techniques to help you identify malicious activity successfully. Finally, you'll work with incident response and incident recovery tools and techniques in an ICS environment. By the end of this book, you'll have gained a solid understanding of industrial cybersecurity monitoring, assessments, incident response activities, as well as threat hunting. What you will learn Monitor the ICS security posture actively as well as passively Respond to incidents in a controlled and standard way Understand what incident response activities are required in your ICS environment Perform threat-hunting exercises using the Elasticsearch, Logstash, and Kibana (ELK) stack Assess the overall effectiveness of your ICS cybersecurity program Discover tools, techniques, methodologies, and activities to perform risk assessments for your ICS environment Who this book is for If you are an ICS security professional or anyone curious about ICS cybersecurity for extending, improving, monitoring, and validating your ICS cybersecurity posture, then this book is for you. IT/OT professionals interested in entering the ICS cybersecurity monitoring domain or searching for additional learning material for different industry-leading cybersecurity certifications will also find this book useful. This multi-volume set is a primary source for basic company and industry information. Names, addresses, SIC code, and geographic location of over 135,000 U.S. companies are included. The text covers four important areas: digital manufacturing, modern manufacturing processes, modeling and simulation in smart industry, and nanotechnology. It further presents mathematical models to represent physical phenomena and applies modern computing methods and simulations in analyzing the same. The text covers key concepts such as abrasive flow machining (AFM), abrasive water jet (AWJ) machining, and hybrid machining for micro/nanomanufacturing. It will serve as an ideal reference text for senior undergraduate, graduate students, and researchers in fields including mechanical engineering, aerospace engineering, manufacturing engineering, and production engineering. Features Discusses sustainable development aspects of additive manufacturing in industry 4.0 Studies electrochemical machining processes for micro-machining Presents experimental Investigation of friction factor and heat transfer rate in the laminar regime Examines the mechanical and microstructural characterization of titanium chips using large strain machining Covers hybrid approaches like electrochemical machining and magnetic abrasive flow machining The book emphasizes linking the computer interface with the digital manufacturing process and their demonstration using commercially available software like Solid-Edge, ProE, and CATIA. It further discusses important aspects of digital manufacturing, advanced composites, artificial intelligence, and modern

manufacturing processes. Cloud computing is rapidly expanding in its applications and capabilities through various parts of society. Utilizing different types of virtualization technologies can push this branch of computing to even greater heights. Design and Use of Virtualization Technology in Cloud Computing is a crucial resource that provides in-depth discussions on the background of virtualization, and the ways it can help shape the future of cloud computing technologies. Highlighting relevant topics including grid computing, mobile computing, open source virtualization, and virtualization in education, this scholarly reference source is ideal for computer engineers, academicians, students, and researchers that are interested in learning more about how to infuse current cloud computing technologies with virtualization advancements. Rock and Popular Music examines the relations between the policies and institutions which regulate contemporary popular music and the political debates, contradictions and struggles in which those musics are involved. International in its scope and conception, this innovative collection explores the reasons for and ways in which governments have sought either to support or prohibit popular music in Canada, Australia and Europe as well as the impact of broadcasting policies in forming and shaping different musical communities. Rock and Popular Music is a unique collection suggesting significant new directions for the study of contemporary popular musics. The definitive Cisco SD-Access resource, from the architects who train Cisco's own engineers and partners This comprehensive book guides you through all aspects of planning, implementing, and operating Cisco Software-Defined Access (SD-Access). Through practical use cases, you'll learn how to use intent-based networking, Cisco ISE, and Cisco DNA Center to improve any campus network's security and simplify its management. Drawing on their unsurpassed experience architecting solutions and training technical professionals inside and outside Cisco, the authors explain when and where to leverage Cisco SD-Access instead of a traditional legacy design. They illuminate the fundamental building blocks of a modern campus fabric architecture, show how to design a software-defined campus that delivers the most value in your environment, and introduce best practices for administration, support, and troubleshooting. Case studies show how to use Cisco SD-Access to address secure segmentation, plug and play, software image management (SWIM), host mobility, and more. The authors also present full chapters on advanced Cisco SD-Access and Cisco DNA Center topics, plus detailed coverage of Cisco DNA monitoring and analytics. \* Learn how Cisco SD-Access addresses key drivers for network change, including automation and security \* Explore how Cisco DNA Center improves network planning, deployment, evolution, and agility \* Master Cisco SD-Access essentials: design, components, best practices, and fabric construction \* Integrate Cisco DNA Center and Cisco ISE, and smoothly onboard diverse endpoints \* Efficiently operate Cisco SD-Access and troubleshoot common fabric problems, step by step \* Master advanced topics, including multicast flows, Layer 2 flooding, and the integration of IoT devices \* Extend campus network policies to WANs and data center networks \* Choose the right deployment options for Cisco DNA Center in your environment \* Master Cisco DNA Assurance analytics and tests for optimizing the health of clients, network devices, and applications THE NETWORK PROFESSIONAL'S GUIDE TO PLANNING, DESIGNING, AND DEPLOYING 5G TRANSPORT NETWORKS As 5G transforms mobile usage and services, network professionals will need to significantly evolve their transport network architectures towards greater sophistication and stronger integration with radio networks, and facilitate transition towards cloud-native 5G mobile core. Until now, however, most 5G guides have foregrounded RF/radio and mobile core innovations, not its implications for data networks. A Network Architect's Guide to 5G fills the gap, giving network architects, designers, and engineers essential knowledge for designing and planning their own 5G networks. Drawing on decades of experience with global service providers and enterprise networks, the authors illuminate new and evolving network technologies necessary for building 5G-capable networks, such as segment routing, network slicing, timing and synchronization, edge computing, distributed data centers, integration with public cloud, and more. They explain how 5G blurs boundaries between mobile core, radio access, and transport, as well as the changes in the composition of a traditional cell site with the adoption of Open and Virtualized RAN resulting in a transition to mobile xHaul. Every chapter builds on earlier coverage, culminating in a "big picture" presentation of a complete 5G network design. Understand the evolution of mobile technologies over the generation leading to 5G's foundational concepts and principles. Explore 5G changes to Radio Access Networks (RAN), the Mobile Core, Mobile Transport, and the need for tighter integration between them. Use Segment Routing to architect simplified, SDN-capable networks, and enable network slicing for 5G. Rethink transport design to incorporate Far-Edge, Edge, and public-cloud based data centers augmenting centralized DCs to support distributed peering and Multi-access Edge Compute. Provide guidance to meet the criteria and requirements for various aspects of Fronthaul, Midhaul, and Backhaul architecture, such as transport protocol evaluation, latency consideration, routing design, QoS modeling, network device selection, and more. Forge a cohesive 5G network architecture by combining mobile communications principles with advanced transport technologies.

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