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Enterprise Wireless Local Area Network Architectures and Technologies - Rihai Wu 2021-04-30
This book has been written with the support of Huawei's large accumulation of technical knowledge and experience in the WLAN field, as well as its understanding of customer service requirements. First, the book covers service challenges facing enterprise wireless networks, along with detailing the latest evolution of Wi-Fi standards, air interface performance, and methods for improving user experience in enterprise scenarios. Furthermore, it illustrates typical networking, planning, and scenario-specific design for enterprise WLANs, and provides readers with a comprehensive understanding of enterprise WLAN planning, design, and technical implementation, as well as suggestions for deployment. This is a practical and easy-to-understand guide to WLAN design, and is written for WLAN technical support and planning engineers, network

administrators, and enthusiasts of network technology. Authors Rihai Wu is Chief Architect of Huawei's campus network WLAN solution with 16 years of experience in wireless communications product design and a wealth of expertise in network design and product development. He previously served as a designer and developer of products for Wideband Code Division Multiple Access (WCDMA), LTE indoor small cells, and WLAN. Xun Yang is a WLAN standard expert from Huawei. He has nine years of experience in formulating WLAN standards, and previously served as 802.11ac Secretary, 802.11ah PHY Ad-hoc Co-chair, and 802.11ax MU Ad Hoc Sub Group Co-chair. Mr. Yang oversees technical research, the promotion of standards, and industrialization in the WLAN field, and has filed more than 100 patents. Xia Zhou is a documentation engineer of Huawei's campus network WLAN solution. She has 10 years of experience in creating documents for campus network products. Ms. Zhou was previously in charge of writing manuals for Huawei data center switches, WLAN products, and campus network solutions. She is also the author of Campus Network Solution Deployment Guide and was a co-sponsor of technical sessions such as WLAN from Basics to Proficiency. Yibo Wang is a documentation engineer of Huawei's campus network WLAN solution. He has nine years of experience in creating documents for campus network products. Mr. Wang was previously in charge of writing manuals for Huawei switches, WLAN products, and routers. He was also a co-sponsor of technical sessions such as WLAN from Basics to Proficiency and HCIA-WLAN certification training courses.
Cloud Data Center Network Architectures and Technologies - Lei Zhang 2021-04-23 Cloud Data Center Network Architectures and Technologies has been written with the support of Huawei's vast technical knowledge and experience in the data center

network (DCN) field, as well as its understanding of customer service requirements. This book describes in detail the architecture design, technical implementation, planning and design, and deployment suggestions for cloud DCNs based on the service challenges DCNs encounter. It starts by describing the overall architecture and technical evolution of DCNs, with the aim of helping readers understand the development of DCNs. It then proceeds to explain the design and implementation of cloud DCNs, including the service model of a single data center (DC), construction of physical and logical networks of DCs, construction of multiple DCNs, and security solutions of DCs. Next, this book dives deep into practices of cloud DCN deployment based on real-world cases to help readers better understand how to build cloud DCNs. Finally, this book introduces DCN openness and some of the hottest forward-looking technologies. In summary, you can use this book as a reference to help you to build secure, reliable, efficient, and open cloud DCNs. It is intended for technical professionals of enterprises, research institutes, information departments, and DCs, as well as teachers and students of computer network-related majors in colleges and universities. Authors Lei Zhang Mr. Zhang is the Chief Architect of Huawei's DCN solution. He has more than 20 years' experience in network product and solution design, as well as a wealth of expertise in product design and development, network planning and design, and network engineering project implementation. He has led the design and deployment of more than 10 large-scale DCNs for Fortune Global 500 companies worldwide. Le Chen Mr. Chen is a Huawei DCN Solution Documentation Engineer with eight years' experience in developing documents related to DCN products and solutions. He has participated in the design and delivery of multiple large-scale enterprise DCNs.

Mr. Chen has written many popular technical document series, such as DCN Handbook and BGP Topic.

Enterprise Data at Huawei - Yun Ma 2021-11-22
This book systematically introduces the data governance and digital transformation at Huawei, from the perspectives of technology, process, management, and so on. Huawei is a large global enterprise engaging in multiple types of business in over 170 countries and regions. Its differentiated operation is supported by an enterprise data foundation and corresponding data governance methods. With valuable experience, methodology, standards, solutions, and case studies on data governance and digital transformation, enterprise data at Huawei is ideal for readers to learn and apply, as well as to get an idea of the digital transformation journey at Huawei. This book is organized into four parts and ten chapters. Based on the understanding of "the cognitive world of machines," the book

proposes the prospects for the future of data governance, as well as the imaginations about AI-based governance, data sovereignty, and building a data ecosystem.

SRv6 Network Programming - Zhenbin Li 2021-06-29
SRv6 Network Programming, beginning with the challenges for Internet Protocol version 6 (IPv6) network development, describes the background, roadmap design, and implementation of Segment Routing over IPv6 (SRv6), as well as the application of this technology in traditional and emerging services. The book begins with the development of IP technologies by focusing on the problems encountered during MPLS and IPv6 network development, giving readers insights into the problems tackled by SRv6 and the value of SRv6. It then goes on to explain SRv6 fundamentals, including SRv6 packet header design, the packet forwarding process, protocol extensions such as Interior Gateway Protocol (IGP), Border Gateway Protocol (BGP), and Path

Computation Element Protocol (PCEP) extensions, and how SRv6 supports existing traffic engineering (TE), virtual private networks (VPN), and reliability requirements. Next, SRv6 network deployment is introduced, covering the evolution paths from existing networks to SRv6 networks, SRv6 network deployment processes, involved O&M technologies, and emerging 5G and cloud services supported by SRv6. Bit Index Explicit Replication IPv6 encapsulation (BIERv6), an SRv6 multicast technology, is then introduced as an important supplement to SRv6 unicast technology. The book concludes with a summary of the current status of the SRv6 industry and provides an outlook for new SRv6-based technologies. SRv6 Network Programming: Ushering in a New Era of IP Networks collects the research results of Huawei SRv6 experts and reflects the latest development direction of SRv6. With rich, clear, practical, and easy-to-understand content, the volume is intended for network planning engineers, technical support engineers and network administrators who need a grasp of the most cutting-edge IP network technology. It is also intended for communications network researchers in scientific research institutions and universities. Authors: Zhenbin Li is the Chief Protocol Expert of Huawei and member of the IETF IAB, responsible for IP protocol research and standards promotion at Huawei. Zhibo Hu is a Senior Huawei Expert in SR and IGP, responsible for SR and IGP planning and innovation. Cheng Li is a Huawei Senior Pre-research Engineer and IP standards representative, responsible for Huawei's SRv6 research and standardization.

Campus Network Architectures and Technologies - Ningguo Shen 2021-04-26
Campus Network Architectures and Technologies begins by describing the service challenges facing campus networks, and then details the intent-driven campus network

architectures and technologies of Huawei Cloud Campus Solution. After reading this book, you will have a comprehensive understanding of next-generation campus network solutions, technical implementations, planning, design, and other know-how. Leveraging Huawei's years of technical expertise and practices in the campus network field, this book systematically describes the use of technical solutions such as virtualization, big data, AI, and SDN in campus networks. You will be able to reconstruct campus networks quickly and efficiently utilizing this informative description. Additionally, this book provides detailed suggestions for campus network design and deployment based on Huawei's extensive project implementation experience, assisting with the construction of automated and intelligent campus networks required to cope with challenges. This is a practical, informative, and easy-to-understand guide for learning about and designing campus networks. It is intended for network planning engineers, network technical support engineers, network administrators, and enthusiasts of campus network technologies. Authors Ningguo Shen is Chief Architect for Huawei's campus network solutions. He has approximately 20 years' experience in campus network product and solution design, as well as a wealth of expertise in network planning and design. Mr. Shen previously served as a system engineer for the campus switch, data center switch, and WLAN product lines, and led the design of Huawei's intent-driven campus network solution. Bin Yu is an Architect for Huawei's campus network solutions. He has 12 years' experience in campus network product and solution design, as well as extensive expertise in network planning and design and network engineering project implementation. Mr. Yu once led the design of multiple features across various campus network solutions. Mingxiang

Huang is a Documentation Engineer for Huawei's campus network solutions. He has three years of technical service experience, and four years of expertise in developing campus network product documentation. Mr. Huang was previously in charge of writing manuals for Huawei router and switch products. He has authored many popular technical series, including Be an OSPF Expert, Insight into Routing Policies, and Story behind Default Routes. Hailin Xu is a Documentation Engineer for Huawei's campus network solutions. He has two years of marketing experience in smart campus solutions, and six years of expertise in developing network products and solution documentation. Extremely familiar with Huawei's campus network products and solutions, Mr. Xu was previously in charge of writing manuals for Huawei routers, switches, and campus network solutions. In addition, he has participated in smart campus marketing projects within such sectors as education, government, and real estate.

Open Radio Access Network (O-RAN) Systems Architecture and Design - Wim Rouwet 2022-03-01 Open Radio Access Network (O-RAN) Systems Architecture and Design gives a jump-start to engineers developing O-RAN hardware and software systems, providing a top-down approach to O-RAN systems design. It gives an introduction into why wireless systems look the way they do today before introducing relevant O-RAN and 3GPP standards. The remainder of the book discusses hardware and software aspects of O-RAN system design, including dimensioning and performance targets. Presents O-RAN and 3GPP standards Provides a top-down approach to O-RAN systems design Includes practical examples of relevant elements of detailed hardware and software design to provide tools for development Gives a few practical examples of where O-RAN designs play in the market and how they map

to hardware and software architectures

Cellular Communications - Nishith Tripathi 2014-09-12 Even as newer cellular technologies and standards emerge, many of the fundamental principles and the components of the cellular network remain the same. Presenting a simple yet comprehensive view of cellular communications technologies, Cellular Communications provides an end-to-end perspective of cellular operations, ranging from physical layer details to call set-up and from the radio network to the core network. This self-contained source for practitioners and students represents a comprehensive survey of the fundamentals of cellular communications and the landscape of commercially deployed 2G and 3G technologies and provides a glimpse of emerging 4G technologies.

Microsoft Hybrid Cloud Unleashed with Azure Stack and Azure - Kerrie Meyler 2017-11-21

Microsoft Hybrid Cloud Unleashed brings together comprehensive and practical insights into hybrid cloud technologies, complete CloudOps and DevOps implementation strategies, and detailed guidance for deploying Microsoft Azure Stack in your environment. Written by five Microsoft Cloud and Datacenter Management MVPs, this book is built on real-world scenarios and the authors' extraordinary hands-on experiences as early adopters. Step by step, the authors help you integrate your optimal mix of private and public cloud, with a unified management experience that lets you move workloads at will, achieving unprecedented flexibility. The authors also guide you through all aspects of building your own secure, high-performance hybrid cloud infrastructure. You'll discover how Azure Stack enables you to run data centers with the same scalability, redundancy, and reliability as Microsoft's Azure data centers; how to integrate Azure infrastructure

and platform services with internal operations; and how to manage crucial external dependencies. The book concludes with a deep dive into automating and customizing Azure Stack for maximum reliability, productivity, and cost savings. Detailed information on how to Run a private/hybrid cloud on your hardware in your data center, using APIs and code identical to public Azure Apply ITIL and DevOps lifecycles to your hybrid cloud implementation Gain a deep understanding of Azure Stack architecture, components, and internals Install and configure Azure Stack and master the Azure Stack Portal Integrate and utilize infrastructure, core, and custom resource providers Effectively provision, secure, and manage tenants Manage, monitor, troubleshoot, and back up Azure Stack with CloudOps Automate resource provisioning with PowerShell, the Azure CLI, templates, and Azure Stack's API Write your own Azure Resource Manager templates Centrally automate

cloud management and complex tasks connected to external systems Develop customized, production-ready Azure Stack marketplace items

Campus Network Architectures and Technologies - Ningguo Shen 2021-05-05
Campus Network Architectures and Technologies begins by describing the service challenges facing campus networks, and then details the intent-driven campus network architectures and technologies of Huawei Cloud Campus Solution. After reading this book, you will have a comprehensive understanding of next-generation campus network solutions, technical implementations, planning, design, and other know-how. Leveraging Huawei's years of technical expertise and practices in the campus network field, this book systematically describes the use of technical solutions such as virtualization, big data, AI, and SDN in campus networks. You will be able to reconstruct campus networks quickly and

efficiently utilizing this informative description. Additionally, this book provides detailed suggestions for campus network design and deployment based on Huawei's extensive project implementation experience, assisting with the construction of automated and intelligent campus networks required to cope with challenges. This is a practical, informative, and easy-to-understand guide for learning about and designing campus networks. It is intended for network planning engineers, network technical support engineers, network administrators, and enthusiasts of campus network technologies. Authors Ningguo Shen is Chief Architect for Huawei's campus network solutions. He has approximately 20 years' experience in campus network product and solution design, as well as a wealth of expertise in network planning and design. Mr. Shen previously served as a system engineer for the campus switch, data center switch, and WLAN product lines, and led the design of Huawei's intent-driven campus network solution. Bin Yu is an Architect for Huawei's campus network solutions. He has 12 years' experience in campus network product and solution design, as well as extensive expertise in network planning and design and network engineering project implementation. Mr. Yu once led the design of multiple features across various campus network solutions. Mingxiang Huang is a Documentation Engineer for Huawei's campus network solutions. He has three years of technical service experience, and four years of expertise in developing campus network product documentation. Mr. Huang was previously in charge of writing manuals for Huawei router and switch products. He has authored many popular technical series, including Be an OSPF Expert, Insight into Routing Policies, and Story behind Default Routes. Hailin Xu is a Documentation Engineer for Huawei's campus network solutions. He has two

years of marketing experience in smart campus solutions, and six years of expertise in developing network products and solution documentation. Extremely familiar with Huawei's campus network products and solutions, Mr. Xu was previously in charge of writing manuals for Huawei routers, switches, and campus network solutions. In addition, he has participated in smart campus marketing projects within such sectors as education, government, and real estate.

5G Explained - Jyrki T. J. Penttinen 2019-04-29 Practical Guide Provides Students and Industry Professionals with Latest Information on 5G Mobile Networks Continuing the tradition established in his previous publications, Jyrki Penttinen offers 5G Explained as a thorough yet concise introduction to recent advancements and growing trends in mobile telecommunications. In this case, Penttinen focuses on the development and employment of 5G mobile networks and, more specifically, the challenges inherent in adjusting to new global standardization requirements and in maintaining a high level of security even as mobile technology expands to new horizons. The text discusses, for example, the Internet of Things (IoT) and how to keep networks reliable and secure when they are constantly accessed by many different devices with varying levels of user involvement and competence. 5G Explained is primarily designed for specialists who need rapid acclimation to the possibilities and concerns presented by 5G adoption. Therefore, it assumes some prior knowledge of mobile communications. However, earlier chapters are structured so that even relative newcomers will gain useful information. Other notable features include: Three modules each consisting of three chapters: Introduction, Technical Network Description and Planning of Security and Deployment Comprehensive

coverage of topics such as technical requirements for 5G, network architecture, radio and core networks and services/applications Discussion of specific security techniques in addition to common-sense guidelines for planning, deploying, managing and optimizing 5G networks 5G Explained offers crucial updates for anyone involved in designing, deploying or working with 5G networks. It should prove a valuable guide for operators, equipment manufacturers and other professionals in mobile equipment engineering and security, network planning and optimization, and mobile application development, or anyone looking to break into these fields.

Gigabit/ATM Monthly Newsletter September 2010 -

Artificial Intelligence Technology - Huawei Technologies Co., Ltd. 2022-10-21 This open access book aims to give our readers a basic outline of today's research and technology developments on artificial intelligence (AI), help them to have a general understanding of this trend, and familiarize them with the current research hotspots, as well as part of the fundamental and common theories and methodologies that are widely accepted in AI research and application. This book is written in comprehensible and plain language, featuring clearly explained theories and concepts and extensive analysis and examples. Some of the traditional findings are skipped in narration on the premise of a relatively comprehensive introduction to the evolution of artificial intelligence technology. The book provides a detailed elaboration of the basic concepts of AI, machine learning, as well as other relevant topics, including deep learning, deep learning framework, Huawei MindSpore AI development framework, Huawei Atlas computing platform, Huawei AI open platform for smart terminals,

and Huawei CLOUD Enterprise Intelligence application platform. As the world's leading provider of ICT (information and communication technology) infrastructure and smart terminals, Huawei's products range from digital data communication, cyber security, wireless technology, data storage, cloud computing, and smart computing to artificial intelligence.

5G System Design - Wan Lei 2019-09-09
This book presents a detailed pedagogical description of the 5G commercial wireless communication system design, from an end to end perspective. It compares and contrasts NR with LTE, and gives a concise and highly accessible description of the key technologies in the 5G physical layer, radio access network layer protocols and procedures. This book also illustrates how the 5G core and EPC is integrated into the radio access network, how virtualization and edge computer fundamentally change the way users interact with the network, as well as 5G spectrum issues. This book is structured into six chapters. The first chapter reviews the use cases, requirements, and standardization organization and activities for 5G. These are 5G requirements and not NR specifically, as technology that meets the requirements, may be submitted to the ITU as 5G technology. This includes a set of Radio Access Technologies (RATs), consisting of NR and LTE; with each RAT meeting different aspects of the requirements. The second chapter describes the air interface of NR and LTE side by side. The basic aspects of LTE that NR builds upon are first described, followed by sections on the NR specific technologies, such as carrier/channel, spectrum/duplexing (including SUL), LTE/NR co-existence and new physical layer technologies (including waveform, Polar/LDPC codes, MIMO, and URLLC/mMTC). In all cases the enhancements made relative to LTE are made

apparent. The third chapter contains descriptions of NR procedures (IAM/Beam Management/Power control/HARQ), protocols (CP/UP/mobility, including grant-free), and RAN architecture. The fourth chapter includes a detailed discussion related to end-to-end system architecture, and the 5G Core (5GC), network slicing, service continuity, relation to EPC, network virtualization, and edge computing. The fifth and major chapter describes the ITU submission and how NR and LTE meet the 5G requirements in significant detail, from the rapporteur responsible for leading the preparation and evaluation, as well as some field trial results. Engineers, computer scientists and professionals with a passing knowledge of 4G LTE and a comprehensive understanding of the end to end 5G commercial wireless system will find this book to be a valuable asset. Advanced-level students and researchers studying and working in communication engineering, who want to gain an understanding of the 5G system (as well as methodologies to evaluate features and technologies intended to supplement 5G) will also find this book to be a valuable resource.

Database Principles and Technologies – Based on Huawei GaussDB - Huawei Technologies Co., Ltd. 2022-10-21
This open access book contains eight chapters that deal with database technologies, including the development history of database, database fundamentals, introduction to SQL syntax, classification of SQL syntax, database security fundamentals, database development environment, database design fundamentals, and the application of Huawei's cloud database product GaussDB database. This book can be used as a textbook for database courses in colleges and universities, and is also suitable as a reference book for the HCIA-GaussDB V1.5 certification examination. The

Huawei GaussDB (for MySQL) used in the book is a Huawei cloud-based high-performance, highly applicable relational database that fully supports the syntax and functionality of the open source database MySQL. All the experiments in this book can be run on this database platform. As the world's leading provider of ICT (information and communication technology) infrastructure and smart terminals, Huawei's products range from digital data communication, cyber security, wireless technology, data storage, cloud computing, and smart computing to artificial intelligence.

China Telecom Monthly Newsletter December 2009 -

Cloud Data Center Network Architectures and Technologies - Lei Zhang 2021-04-22
Cloud Data Center Network Architectures and Technologies has been written with the support of Huawei's vast technical knowledge and experience in the data center network (DCN) field, as well as its understanding of customer service requirements. This book describes in detail the architecture design, technical implementation, planning and design, and deployment suggestions for cloud DCNs based on the service challenges DCNs encounter. It starts by describing the overall architecture and technical evolution of DCNs, with the aim of helping readers understand the development of DCNs. It then proceeds to explain the design and implementation of cloud DCNs, including the service model of a single data center (DC), construction of physical and logical networks of DCs, construction of multiple DCNs, and security solutions of DCs. Next, this book dives deep into practices of cloud DCN deployment based on real-world cases to help readers better understand how to build cloud DCNs. Finally, this book introduces DCN openness and some of the hottest forward-looking technologies. In summary, you can use this

book as a reference to help you to build secure, reliable, efficient, and open cloud DCNs. It is intended for technical professionals of enterprises, research institutes, information departments, and DCs, as well as teachers and students of computer network-related majors in colleges and universities. Authors Lei Zhang Mr. Zhang is the Chief Architect of Huawei's DCN solution. He has more than 20 years' experience in network product and solution design, as well as a wealth of expertise in product design and development, network planning and design, and network engineering project implementation. He has led the design and deployment of more than 10 large-scale DCNs for Fortune Global 500 companies worldwide. Le Chen Mr. Chen is a Huawei DCN Solution Documentation Engineer with eight years' experience in developing documents related to DCN products and solutions. He has participated in the design and delivery of multiple large-scale enterprise DCNs.

Mr. Chen has written many popular technical document series, such as DCN Handbook and BGP Topic.

Design, Deployment and Performance of 4G-LTE Networks - Ayman ElNashar 2014-03-13
This book provides an insight into the key practical aspects and best practice of 4G-LTE network design, performance, and deployment Design, Deployment and Performance of 4G-LTE Networks addresses the key practical aspects and best practice of 4G networks design, performance, and deployment. In addition, the book focuses on the end-to-end aspects of the LTE network architecture and different deployment scenarios of commercial LTE networks. It describes the air interface of LTE focusing on the access stratum protocol layers: PDCP, RLC, MAC, and Physical Layer. The air interface described in this book covers the concepts of LTE frame structure, downlink and uplink scheduling, and detailed illustrations of the data flow

across the protocol layers. It describes the details of the optimization process including performance measurements and troubleshooting mechanisms in addition to demonstrating common issues and case studies based on actual field results. The book provides detailed performance analysis of key features/enhancements such as C-DRX for Smartphones battery saving, CSFB solution to support voice calls with LTE, and MIMO techniques. The book presents analysis of LTE coverage and link budgets alongside a detailed comparative analysis with HSPA+. Practical link budget examples are provided for data and VoLTE scenarios. Furthermore, the reader is provided with a detailed explanation of capacity dimensioning of the LTE systems. The LTE capacity analysis in this book is presented in a comparative manner with reference to the HSPA+ network to benchmark the LTE network capacity. The book describes the voice options for LTE including VoIP protocol stack, IMS Single Radio Voice Call Continuity (SRVCC). In addition, key VoLTE features are presented: Semi-persistent scheduling (SPS), TTI bundling, Quality of Service (QoS), VoIP with C-DRX, Robust Header Compression (RoHC), and VoLTE Vocoders and De-Jitter buffer. The book describes several LTE and LTE-A advanced features in the evolution from Release 8 to 10 including SON, eICIC, CA, CoMP, HetNet, Enhanced MIMO, Relays, and LBS. This book can be used as a reference for best practices in LTE networks design and deployment, performance analysis, and evolution strategy. Conveys the theoretical background of 4G-LTE networks Presents key aspects and best practice of 4G-LTE networks design and deployment Includes a realistic roadmap for evolution of deployed 3G/4G networks Addresses the practical aspects for designing and deploying commercial LTE networks.

Analyzes LTE coverage and link budgets, including a detailed comparative analysis with HSPA+. References the best practices in LTE networks design and deployment, performance analysis, and evolution strategy Covers infrastructure-sharing scenarios for CAPEX and OPEX saving. Provides key practical aspects for supporting voice services over LTE, Written for all 4G engineers/designers working in networks design for operators, network deployment engineers, R&D engineers, telecom consulting firms, measurement/performance tools firms, deployment subcontractors, senior undergraduate students and graduate students interested in understanding the practical aspects of 4G-LTE networks as part of their classes, research, or projects.

Global Value Chains and Production Networks - Fengru Cui 2018-12-05
Global Value Chains and Production Networks: Case Studies of Siemens and Huawei presents theories and frameworks that facilitate the evolution of GPN studies, from macro perspectives based on territory and industry to the use of micro (firm-level) data. The book explores these theories and frameworks through detailed case studies of two major corporations, Siemens and Huawei. With the GPN/GVC structure of Chinese firms not well known outside China, despite the growing importance of Chinese firms in the global economy, this guide plays a pivotal role in facilitating the use of data that promise to unlock economic cooperation and value. Emphasizes micro-data analytical models and their methodological underpinnings Illustrates how these data illuminate the economic structures of two comparable GPNs within highly divergent institutional contexts Suggests how companies can cooperate with foreign partners to enhance their global management capacity and reshape their advantages in international competition

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China Monthly Newsletter September 2010 -

Unleashing the Power of 5GtoB in Industries - Pengfei Sun 2021-10-07
This book will delve into how new ICTs, represented by 5G, collectively empower industries from the perspective of theories and practices. 5G is integrating with cloud, intelligence, big data, and applications to push the boundaries of industries and diversify industrial services. Starting from the background and value of industry digitalization, Section I introduces the new ICT infrastructure for industry digitalization, as well as a new support system based on this infrastructure to enable 5GtoB to bring new value to industries. Section II summarizes the success factors and four key capabilities for achieving 5GtoB success from methodological perspective. Abundant application cases are provided in Section III to explore the adoption of 5GtoB in key enterprises across industries, as well as the benefits brought to these enterprises. The final section analyzes the future evolution and applications of 5GtoB. 5G enables a plethora of possibilities. We believe that this book will inspire everyone in the 5GtoB industry chain to embrace 5GtoB and take the digital transformation of industries to new heights.
China Telecom Monthly Newsletter 08-10 -

Tools for Design, Implementation and Verification of Emerging Information Technologies - Yu Weng 2021-05-21
This book constitutes the refereed post-conference proceedings of the 15th EAI International Conference on Tools for Design, Implementation and Verification of Emerging Information Technologies, TridentCom 2020. Due to COVID 19 pandemic the conference was held virtually. The 12 full papers were

selected from 32 submissions and deal the emerging technologies of big data, cyber-physical systems and computer communications. The papers are grouped in thematical sessions on computer network and testbed application as well as analytics for big data of images and test.

Deploying Next Generation Multicast-enabled Applications - Vinod Joseph 2011-08-20 Deploying Next Generation Multicast-Enabled Applications: Label Switched Multicast for MPLS VPNs, VPLS, and Wholesale Ethernet provides a comprehensive discussion of Multicast and MVPN standards—next-generation Multicast-based standards, Multicast Applications, and case studies with detailed configurations. Focusing on three vendors—Juniper, Cisco, and Alcatel-Lucent—the text features illustrations that contain configurations of JUNOS, TiMOS (Alcatel's OS), or Cisco IOS, and each configuration is explained in great detail. Multiple- rather than single-vendor configurations were selected for the sake of diversity as well as to highlight the direction in which the overall industry is going rather than that of a specific vendor. Beginning with a discussion of the building blocks or basics of IP Multicast, the book then details applications and emerging trends, including vendor adoptions, as well as the future of Multicast. The book is written for engineers, technical managers, and visionaries engaged in the development of next-generation IP Multicast infrastructures. Offers contextualized case studies for illustrating deployment of the Next Generation Multicast technology Provides the background necessary to understand current generation multi-play applications and their service requirements Includes practical tips on various migration options available for moving to the Next Generation framework from the legacy
CLOUD COMPUTING - Narayan Changder

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Software Architecture - Carlos E. Cuesta 2018-09-19 This book constitutes the refereed proceedings of the 12th European Conference on Software Architecture, ECSA 2018, held in Madrid, Spain, in September 2018. The 17 full papers presented together with 7 short papers were carefully reviewed and selected from 96 submissions. They are organized in topical sections as follows: Self-Adaptive Architectures, IoT Architectures, Embedded and Cyber-Physical Systems, Microservices Architectures, Service-Oriented Architectures, Architectural Design Decisions, Software Architecture in Practice.
Handbook of Research on

Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network - Kumar, D. Satish 2022-03-04
To overcome the constraints of 5G for supporting new challenges, 6G wireless systems must be developed with new and attractive features. These systems are expected to increase performance and maximize quality of service several folds more than 5G along with other exciting features. However, 6G is still in its infancy and must be explored. The Handbook of Research on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network discusses the technological feats used in the new 6G wireless systems. It discusses the design, automation, and uses for industry as well as testing strategies. Covering topics such as 6G architecture, smart healthcare, and wireless communication, this major reference work is an excellent resource for computer scientists, engineers, students and professors in higher education, researchers, and academicians.

Software-Defined Wide Area Network Architectures and Technologies - Cheng Sheng 2021-05-05
Starting with problems and challenges faced by enterprise WANs, Software-Defined Wide Area Network Architectures and Technologies provides a detailed description of SD-WAN's background and basic features, as well as the system architecture, operating mechanism, and application scenarios of the SD-WAN solution based on the implementation of Huawei SD-WAN Solution. It also explains key SD-WAN technologies and analyzes real SD-WAN deployment cases, affording readers with design methods and deployment suggestions for the SD-WAN solution. The information presented in this book is easy to understand and very practical. It enables you to become adept in the SD-WAN solution's implementation and design principles. The book is intended for ICT practitioners,

such as network technical support engineers, network administrators, and network planning engineers, to use in studying theory. Furthermore, it serves as reference material for network technology enthusiasts. Authors Cheng Sheng is the Chief Architect of Huawei's SD-WAN Solution. He has nearly 20 years of experience in network product and solution design, as well as extensive expertise in product design and development, network planning and design, and network engineering project implementation. Jie Bai is an Architect of Huawei's SD-WAN Solution. He is well versed in Huawei security products and SD-WAN Solution and has written books such as Huawei Firewall Technology Talk as well as Huawei Anti-DDoS Technology Talk. Qi Sun is a Senior Information Architect of Huawei, and he is knowledgeable in Huawei SD-WAN Solution, CloudVPN Solution, and Cloud Management Solution. He also participated in the information architecture design and

delivery of multiple solutions. Design and Deployment of Small Cell Networks - Alagan Anpalagan 2015-12-17 A comprehensive one-stop resource for understanding small cell networks, from fundamental concepts to emerging trends, design tools, challenges and solutions.
Global Usability - Ian Douglas 2011-03-24 The concept of usability has become an increasingly important consideration in the design of all kinds of technology. As more products are aimed at global markets and developed through internationally distributed teams, usability design needs to be addressed in global terms. Interest in usability as a design issue and specialist area of research and education has developed steadily in North America and Europe since the 1980's. However, it is only over the last ten years that it has emerged as a global concern. Global Usability provides an introduction to the important issues in globalizing design and an insight into the development

of usability expertise around the world. The book is divided into two sections. The first section deals with the general issues in cross-cultural design and the methods for conducting usability design and evaluation across geographical boundaries. The second section describes the state of usability development in fifteen countries. The descriptions include a history and review of activities and include some unique perspectives that have developed in relation to usability work. Researchers and practitioners from a variety of design-related disciplines will find the book a useful guide for understanding the issues and an excellent reference source for working in any of the countries covered.
China's Drive for the Technology Frontier - Yin Li 2022-07-07
China has become an innovation powerhouse in high-tech industries, but the widely held view assumes the Chinese model is built on technological borrowing and state capitalism. This book debunks the myths surrounding the Chinese model with a fresh take on China's strategies for technological innovation. The central argument is that indigenous innovation plays a critical role in transforming the Chinese high-tech industry. Like any successfully industrialized nation in history, indigenous innovation in China allows industrial enterprises to assimilate knowledge developed elsewhere, utilize science and technology resources and human capabilities accumulated in the country, and eventually approach the technological frontier. The question is, how do Chinese businesses and governments engage in indigenous innovation? Employing the "social conditions of innovative enterprise" framework developed by William Lazonick and colleagues, this book analyzes how the interaction of strategy, organization, and finance in leading Chinese high-tech firms underpinned by national institutions enables indigenous innovation with

Chinese characteristics. It features detailed case studies of two critical high-tech industries—the telecom-equipment industry and the semiconductor industry—and within them, the business histories of leading Chinese innovators. The in-depth look into China's experience in indigenous innovation provides valuable lessons for advanced and emerging economies.

Computerworld - 2003-03-24
For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Software-Defined Wide Area Network Architectures and Technologies - Cheng Sheng 2021
Starting with problems and challenges faced by enterprise WANs, Software-Defined Wide Area Network Architectures and Technologies provides a detailed description of SD-WAN's background and basic features, as well as the system architecture, operating mechanism, and application scenarios of the SD-WAN solution based on the implementation of Huawei SD-WAN Solution. It also explains key SD-WAN technologies and analyzes real SD-WAN deployment cases, affording readers with design methods and deployment suggestions for the SD-WAN solution. The information presented in this book is easy to understand and very practical. It enables you to become adept in the SD-WAN solution's implementation and design principles. The book is intended for ICT practitioners, such as network technical support engineers, network administrators, and network planning engineers, to use in studying theory. Furthermore, it serves as reference material for network technology enthusiasts. Authors Cheng Sheng is the Chief Architect of Huawei's SD-WAN Solution. He

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5G System Design - Patrick Marsch 2018-03-28 This book provides a comprehensive overview of the latest research and standardization progress towards the 5th generation (5G) of mobile communications technology and beyond. It covers a wide range of topics from 5G use cases and their requirements, to spectrum, 5G end-to-end (E2E) system architecture including core network (CN), transport network (TN) and radio access network (RAN) architecture, network slicing, security and network management. It further dives into the detailed functional design and the evaluation of different 5G concepts, and provides details on planned trials and pre-commercial deployments across the globe. While the book naturally captures the latest agreements in 3rd Generation Partnership Project (3GPP) New Radio (NR) Release 15, it goes significantly beyond this by describing the likely developments towards the final 5G system that will ultimately utilize a wide range of spectrum bands, address all envisioned 5G use cases, and meet or exceed the International Mobile Telecommunications (IMT) requirements for the year 2020 and beyond (IMT-2020). 5G System Design: Architectural

and Functional Considerations and Long Term Research is based on the knowledge and consensus from 158 leading researchers and standardization experts from 54 companies or institutes around the globe, representing key mobile network operators, network vendors, academic institutions and regional bodies for 5G. Different from earlier books on 5G, it does not focus on single 5G technology components, but describes the full 5G system design from E2E architecture to detailed functional design, including details on 5G performance, implementation and roll-out. *Fiber Optics Weekly Update December 24, 2010 -*

Design, Operation and Evaluation of Mobile Communications - Gavriel Salvendy 2022-06-16 This book constitutes the refereed proceedings of the Third International Conference on Design, Operation and Evaluation of Mobile Communications, MOBILE 2022, held as part of the 23rd International Conference, HCI International 2022, which was held virtually in June/July 2022. The total of 1271 papers and 275 posters included in the HCII 2022 proceedings was carefully reviewed and selected from 5487 submissions. The MOBILE 2022 proceedings were organized in the following topical sections: Designing Mobile Interactions and Systems; User Experience and Adoption of Mobile Communications; Mobile Commerce and Advertising; Mobile Interactions with Agents; Emerging Mobile Technologies.
The Management Transformation of Huawei - Xiaobo Wu 2020-04-30 Huawei has become China's most prominent multinational company and a leader in the ICT sector. Given unprecedented access to the company, the authors of this book examine the management transformation of Huawei from its inception in 1987 until 2019, observing in detail not only the creation of its organizational routines but also

the breaking of routines across most major functional areas: Management, Product Development, HR, Supply Chain, Finance, R&D, Intellectual Property, and International Business. 'Dynamic capabilities' are central to theories of competitive advantage and this book highlights Huawei as an ideal case study for the successful implementation of change routines and change-supporting values. The chapters cover all the major change initiatives the firm has undertaken since 1996 to import best practices from the West, with the help of consultants. The insights presented in the book will be particularly interesting for academics in the field of strategy, management, and business history.

The Cloud Computing Book - Douglas Comer 2021-07-01 This latest textbook from bestselling author, Douglas E. Comer, is a class-tested book providing a comprehensive introduction to cloud computing. Focusing on concepts and principles, rather than commercial offerings by cloud providers and vendors, The Cloud Computing Book: The Future of Computing Explained gives readers a complete picture of the advantages and growth of cloud computing, cloud infrastructure, virtualization, automation and orchestration, and cloud-native software design. The book explains real and virtual data center facilities, including computation (e.g., servers, hypervisors, Virtual Machines, and containers), networks (e.g., leaf-spine architecture, VLANs, and VxLAN), and storage mechanisms (e.g., SAN, NAS, and object storage). Chapters on automation and orchestration cover the conceptual organization of systems that automate software deployment and scaling. Chapters on cloud-native software cover parallelism, microservices, MapReduce, controller-based designs, and serverless computing. Although it focuses on concepts and principles, the

book uses popular technologies in examples, including Docker containers and Kubernetes. Final chapters explain security in a cloud environment and the use of models to help control the complexity involved in designing software for the cloud. The text is suitable for a one-semester course for software engineers who want to understand cloud, and for IT managers moving an organization's computing to the cloud.

6G: The Next Horizon - Wen Tong 2021-05-06
The first book on 6G wireless presents an overall vision for 6G - an era of intelligence-of-everything - with drivers, key capabilities, use cases, KPIs, and the technology innovations that will shape it. These innovations include immersive human-centric communication, sensing, localization, and imaging, connected machine learning and networked AI, Industry 4.0 and beyond with connected intelligence, smart cities and life, and the satellite mega-constellation for 3D full-Earth wireless coverage. Also covered are new air-interface and networking technologies, integrated sensing and communications, and integrated terrestrial and non-terrestrial networks. In addition, novel network architectures to enable network AI, user centric networks, native trustworthiness are discussed. Essential reading for researchers in academia and industry working on B5G wireless communications.
Northern African Wireless Communications - 2007