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Springer

Cellular Internet of Things: From Massive Deployments to Critical 5G Applications, Second Edition, gives insights into the recent and rapid work performed by the 3rd Generation Partnership Project (3GPP) and the Multefire Alliance

(MFA) to develop systems for the Cellular IoT. Beyond the technologies, readers will learn what the mMTC and cMTC market segments look like, deployment options and expected performance in terms of system capacity, expected battery lifetime, data throughput, access delay time and device cost, regulations for operation in unlicensed frequency bands, and how they impact system design and performance. This new edition contains updated content on the latest EC-GSM IoT, LTE-M and NB-IoT features in 3GPP Release 15, critical

communication, i.e. URLLC, specified in 3GPP Release 15 for both LTE and NR, LTE-M and NB-IoT for unlicensed frequency bands specified in the Multefire Alliance (MFA), and an updated outlook of what the future holds in Industrial IoT and drone communications, amongst other topics. Provides ubiquitous wireless connectivity for a diverse range of services and applications, describing their performance and how their specifications were developed to meet the most demanding requirements Describes licensed

how they have evolved towards the Cellular IoT Presents the Narrowband Internet of Things technology and how GSM, LTE and NR have been designed to provide Cellular Internet of Things services Provides use cases that cover ultra-low complex systems connecting billions of devices (massive MTC, mMTC), critical MTC and cMTC based on Ultra-Reliable and Low Latency Communications (URLLC) to meet strict latency and reliability requirements Principles, Models and Technology Components John Wiley & Sons 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

trends in mobile telecommunications.

In this case, Penttinen focuses on the

specifically, the challenges inherent in

development and employment of 5G

mobile networks and, more

recent advancements and growing

and unlicensed technologies based

on 2G, 4G and 5G technologies and

requirements and in maintaining a high planning, deploying, managing and 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  ${}^{5G}_{-}$  Core key concepts An overview of 5G specific security techniques in addition

adjusting to new global standardization to common-sense guidelines for 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. 5G Radio Access Network Architecture **Springer Nature** 

5G Core Networks: Powering Digitalization provides an overview of the 5G Core network architecture, as well as giving descriptions of cloud technologies and the key concepts in the 3GPP rel-15/16 specifications. Written by the authors who are heavily involved in development of the 5G standards and who wrote the successful book on EPC and 4G Packet Networks, this book provides an authoritative reference on the technologies and standards of the 3GPP 5G Core network. Content includes: An overview of the 5G Core Architecture The Stand-Alone and Non-Stand-Alone Architectures Detailed presentation of Radio and Cloud technologies Learn The

previous core network generations How the interworking with previous network standards is defined Why certain functionality has been included and what is beyond the scope of 5G Core How the specifications relate to state-ofthe-art web-scale concepts and virtualization technologies Details of the protocol and service descriptions Examples of network deployment options Provides a clear, concise and comprehensive view of 5GS/5GC Written by established experts in the 5GS/5GC standardization process, all of whom have extensive experience and understanding of its goals, history and vision Covers potential service and operator scenarios for each architecture Explains the Service Based Architecture, Network Slicing and support of Edge Computing, describing the benefits they will bring Explains what options and parts of the standards will initially be deployed in real networks, along with their migration paths An Introduction to the 5th Generation Mobile Networks IGI Global A guide to the 3GPP-specified 5G physical layer with a focus on the new beam-based dimension in the radio system 5G New Radio: A Beam-based Air Interface is an authoritative guide to the newly 3GPPspecified 5G physical layer. The contributors—noted experts on the topic

differences between the 5G Core network and and creators of the actual standard—focus on the beam-based operation which is a new dimension in the radio system due to the millimeter wave deployments of 5G. The book contains information that complements the 3GPP specification and helps to connect the dots regarding key features. The book assumes a basic knowledge of multi-antenna technologies and covers the physical layer aspects related to beam operation, such as initial access, details of reference signal design beam management, and DL and UL data channel transmission. The contributors also provide a brief overview of standardization efforts, IMT-2020 submission, 5G spectrum, and performance analysis of 5G components. This important text: Contains information on the 3GPP-specified 5G physical layer Highlights the beam-based operation Covers the physical layer aspects related to beam operation Includes contributions from experts who created the standard Written for students and development engineers working with 5G NR, 5G New Radio: A Beam-based Air Interface offers an expert analysis of the 3GPP-specified 5G physical layer. Rolling Out 5G CRC Press

description of the 5G commercial wireless communication system design, from an end to end perspective, by those that were intimate with its development. The exposition only assumes that the reader is passingly familiar with LTE and builds upon that knowledge. By comparing and contrasting NR with LTE, it allows for quick mastering of 5G. As such it gives concise and highly accessible description of the key technologies in the 5G physical layer, radio access network layer protocols and procedures, how the 5G core and EPC is integrated into the radio access network, how virtualization, slicing and edge computer will fundamentally change the way we interact with the network, as well as 5G spectrum issues. The 2nd edition of this book significantly enhances and updates the first edition by adding 5G security and Release-16 developments. Loosely speaking, 5G Release-15 can be characterized as being optimized for the cellular carrier eMBB service while 5G Release-16 is the beginning of the optimization of 5G for the vertical industries. It mainly focused on the support of the vehicular vertical and Industrial Internet of Things. As such, we have significantly altered the first edition to cover the key features standardized in Release-16 including: URLLC, V2X, IIoT, enhanced MIMO, unlicensed access, positioning, power savings and IAB. On the network side, detailed discussion covers NR security as well as the newly standardized access traffic steering, non 3GPP access switching and splitting features, non 3GPP access network support and private networks.

This book presents a detailed pedagogical

Engineers, computer scientists and professionals from those with a passing knowledge of 4G LTE to experts in the field will find this book to be a valuable asset. They will gain a comprehensive understanding of the end to end 5G commercial wireless system. 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.

Processing, New Spectrum Opportunities and N System-level Enabling Technologies, it covers everything from network architecture, physical layer (down-link and up-link), protocols and air interface, to cell acquisition, scheduling and rate adaption, access procedures and relaying to spectrum allocations. All technology aspects are major roadmaps of global 5G standard development and deployments are included in the book. Key Features: Offers step-by-step guidare on bringing 5G technology into practice, by applying algorithms and design methodology to real-time circuit implementation, taking into account rapidly growing applications that have

A comprehensive and invaluable guide to 5G technology, implementation and practice in one single volume. For all things 5G, this book is a must-read. Signal processing techniques have played the most important role in wireless communications since the second generation of cellular systems. It is anticipated that new techniques employed in 5G wireless networks will not only improve peak service rates significantly, but also enhance capacity, coverage, reliability, low-latency, efficiency, flexibility, compatibility and convergence to meet the increasing demands imposed by applications such as big data, cloud service, machine-to-machine (M2M) and missioncritical communications. This book is a comprehensive and detailed guide to all signal processing techniques employed in 5G wireless networks. Uniquely organized into four categories, New Modulation and Coding, New Spatial

Processing, New Spectrum Opportunities and New everything from network architecture, physicallayer (down-link and up-link), protocols and air interface, to cell acquisition, scheduling and rate adaption, access procedures and relaying to spectrum allocations. All technology aspects and major roadmaps of global 5G standard development and deployments are included in the book. Key Features: Offers step-by-step guidance on bringing 5G technology into practice, by applying algorithms and design methodology to real-time circuit implementation, taking into account rapidly growing applications that have multi-standards and multi-systems. Addresses spatial signal processing for 5G, in particular massive multiple-input multiple-output (massive-MIMO), FD-MIMO and 3D-MIMO along with orbital angular momentum multiplexing, 3D beamforming and diversity. Provides detailed algorithms and implementations, and compares all multicarrier modulation and multiple access schemes that offer superior data transmission performance including FBMC, GFDM, F-OFDM, UFMC, SEFDM, FTN, MUSA, SCMA and NOMA. Demonstrates the translation of signal processing theories into practical solutions for new spectrum opportunities in terms of millimeter wave, full-duplex transmission and license assisted access. Presents well-designed implementation examples, from individual function block to system level for effective and accurate learning. Covers signal processing aspects of emerging system and

network architectures, including ultra-dense networks (UDN), software-defined networks (SDN), device-to-device (D2D) communications and cloud radio access network (C-RAN).

## Fundamental Requirements, Enabling Technologies, and Operations

**Management** Academic Press Written by leading experts in 5G research, this book is a comprehensive overview of the current state of 5G. Covering everything from the most likely use cases, spectrum aspects, and a wide range of technology options to potential 5G system architectures, it is an indispensable reference for academics and professionals involved in wireless and mobile communications. Global research efforts are summarised, and key component technologies including D2D, mm-wave communications, massive MIMO, coordinated multi-point, wireless network coding, interference management and spectrum issues are described and explained. The significance of 5G for the automotive, building, energy, and manufacturing economic sectors is addressed, as is the relationship between IoT, machine type communications, and

cyber-physical systems. This essential resource equips you with a solid insight into the nature, impact and opportunities of 5G. 5G System Design Academic Press LTE network capabilities are enhanced with small cell deployment, with optimization and with new 3GPP features. LTE networks are getting high loaded which calls for more advanced optimization. Small cells have been discussed in the communications industry for many years, but their true deployment is happening now. New 3GPP features in Release 12 and 13 further push LTE network performance. This timely book addresses R&D and standardization activities on LTE small cells and network optimization, focusing on 3GPP evolution to Release 13. It covers LTE small cells from specification to products and field results; Latest 3GPP evolution to Release 13; and LTE optimization and learnings from the field.

## FCC Record Wiley

Discover the foundations and main applications of telecommunications to smart grids In Smart Grid Telecommunications, renowned researchers and authors Drs. Alberto Sendin, Javier Matanza, and Ramon Ferrús deliver a focused treatment of the fundamentals and main applications of telecommunication technologies in smart grids. Aimed at engineers and professionals who work with power systems, the book

explains what smart grids are and where telecommunications are needed to solve their various challenges. Power engineers will benefit from explanations of the main concepts vehicles, microgrids, etc. A treatment of of telecommunications and how they are applied to the different domains of a smart grid. technologies, like DWDM, Ethernet, IP, Telecommunication engineers will gain an understanding of smart grid applications and services, and will learn from the explanations of how telecommunications need to be adapted to work with them. The authors aim to offer a simplified vision of smart grids with rigorous coverage of the latest advances in the field, while avoiding some of the technical complexities that can hinder understanding in this area. The book offers: Discussions of why telecommunications are necessary in smart grids and the various telecommunication services and systems relevant for them An exploration of foundational telecommunication concepts ranging from system-level aspects, such as network topologies, multi-layer architectures and protocol stacks, to communications channel transmission- and reception-level aspects covering modulations, bandwidth, multiple access, signal to noise ratio, interference, transmission media impairments, and more Examinations of telecommunication-related smart grids services and systems, including SCADA, protection and international experts on the topic, the book

teleprotection, smart metering, substation and distribution automation, synchrophasors, Distributed Energy Resources, electric wireline and wireless telecommunication MPLS, PONs, PLC, BPL, 3GPP cellular 4G and 5G technologies, Zigbee, Wi-SUN, LoRaWAN, Sigfox, etc., addressing their architectures, characteristics, and limitations Ideal for engineers working in power systems or telecommunications as network architects, operations managers, planners, or in regulationrelated activities. Smart Grid Telecommunications is also an invaluable resource for telecommunication network and Smart Grid architects. 3GPP Evolution to Release 13 Academic Press A comprehensive guide to 5G technology, applications and potential for the future 5G brings new technology solutions to the 5G mobile networks including new spectrum options, new antenna structures, new physical layer and protocols designs and new network architectures.

5G Technology: 3GPP New Radio is a

5G specifications, performance evaluations,

aspects of device design, practical deployment

experiences. With contributions from a panel of

comprehensive resource that offers explanations of

considerations and illustrative examples from field

presents the main new technology components in 5G and describes the physical layer, radio protocols communications, massive MIMO technology and and network performance. The authors review the deployment aspects such as site density and transport network and explore the 5G performance aspects including data rates and coverage and latency. The book also contains illustrative examples of practical field measurement. In addition, the book includes the most recent developments in 4G LTE evolution and offers an outlook for the future of the evolution of 5G. This important book: Offers an introduction to 5G technology and its applications Contains contributions from international experts on the topic Reviews the main technology components in Achieving these ambitious goals calls for 5G Includes information on the optimisation of the revolutionary candidate technologies in future 5G Internet of things Presents illustrative examples of practical field measurements Written for students and scientists interested in 5G technology, 5G Technology: 3GPP New Radio provides a clear understanding of the underlying 5G technology that analysis of the possibilities of 5G systems. promotes the opportunity to take full benefit of new Innovation in Information Systems and capabilities.

Security and Deployment of Advanced Mobile Communications John Wiley & Sons This book provides a comprehensive overview of the emerging technologies for next-generation 5G mobile communications, with insights into the long-term future of 5G. Written by international leading experts on the subject, this contributed volume covers a wide range of technologies, research results, and networking methods. Key enabling technologies for 5G systems include, but are not limited to, millimeter-wave non-orthogonal multiple access. 5G will herald an even greater rise in the prominence of mobile access based upon both human-centric and machine-5G Physical Layer: Principles, Models and centric networks. Compared with existing 4G communications systems, unprecedented numbers of smart and heterogeneous wireless devices will be accessing future 5G mobile systems. As a result, technology – 5G New Radio (NR). The physical a new paradigm shift is required to deal with challenges on explosively growing requirements in mobile data traffic volume (1000x), number of connected devices (10-100x), typical end-user data GHz). The physical layer technologies include rate (10–100x), and device/network lifetime (10x). mobile systems. Designed for researchers and professionals involved with networks and communication systems, 5G Mobile Communications is a straightforward, easy-to-read Technologies to Support Learning Research **CRC Press** 

5G mobile networks use new concepts and technologies to provide current and future applications from high bit-rate smartphones to highly available Car-to-X and IoT applications. But not only technology is an issue. Also, the environmental impact is under discussion. These topics are presented here in a well-founded introduction, with the focus on

innovative concepts and technologies, including standardization.

The Next Generation Wireless Access Technology Academic Press

Technology Components explains fundamental physical layer design principles, models and components for the 5G new radio access layer models include radio wave propagation and hardware impairments for the full range of frequencies considered for the 5G NR (up to 100 flexible multi-carrier waveforms, advanced multiantenna solutions, and channel coding schemes for a wide range of services, deployments, and frequencies envisioned for 5G and beyond. A MATLAB-based link level simulator is included to explore various design options. 5G Physical Layer is very suitable for wireless system designers and researchers: basic understanding of communication theory and signal processing is assumed, but familiarity with 4G and 5G standards is not required. With this book the reader will learn: The fundamentals of the 5G NR physical layer (waveform, modulation, numerology, channel codes, and multi-antenna schemes). Why certain PHY technologies have been adopted for the 5G NR. The fundamental physical limitations imposed by radio wave propagation and hardware impairments. How the fundamental 5G NR physical layer functionalities (e.g.,

parameters/methods/schemes) should be realized. The content includes: A global view of 5G development – concept, standardization, spectrum allocation, use cases and requirements, trials, and future commercial deployments. The fundamentals behind the 5G NR physical layer specification in 3GPP. Radio wave propagation and channel modeling for 5G and beyond. Modeling of hardware impairments for future base stations and devices. Flexible multi-carrier waveforms, multiantenna solutions, and channel coding schemes for 5G and beyond. A simulator including hardware impairments, radio propagation, and various waveforms. Ali Zaidi is a strategic product manager at Ericsson, Sweden. Fredrik Athley is a senior researcher at Ericsson, Sweden. Jonas Medbo and Ulf Gustavsson are senior specialists at Ericsson, Sweden. Xiaoming Chen is a professor at Xi'an Jiaotong University, China. Giuseppe Durisi is a professor at Chalmers University of Technology, Sweden, and a guest researcher at Ericsson, Sweden.

## A Multidisciplinary Primer John Wiley & Sons

This book provides an in-depth introduction to the International Telecommunication Union (ITU) Radio Regulations (RR) and the policies that govern them. Established in 1906, these regulations define the allocation of different frequency bands to different radio

services, the mandatory technical parameters reforms that allow it to address the needs of to be observed by radio stations, especially transmitters, and the procedures for spectrum use coordination at the international level. The book analyzes the interactions between different national policies and the ITU RR, noting how these interactions influence spectrum policy on the national level, setting up a comparative framework within which to view these regulations and their effects. Beginning with an overview of the history of the origins ITU RR, the book takes a deep dive into the components of spectrum management including radio communication service allocation, wireless technology selection, radio usage rights, and and RF characteristics, and system spectrum rights assignment, placing each analysis within the context of the push and pull between national and international regulations. The book concludes with chapters discussing issues affecting the future of spectrum policy, including spectrum policy reform in developing countries, the WRC-19, and IMT-2020. Shedding light on the longest-running treaty access in general is explained, giving both a documents in the history of modern telecommunications and arguing for

all nations, this book is useful to scholars and students of telecom policy, digital policy, ICT, governance, and development as well as telecom industry practitioners and regulators.

Third EAI International Conference, SPNCE 2020, Lyngby, Denmark, August **6-7, 2020, Proceedings** John Wiley & Sons This book focuses on LTE with full updates including LTE-Advanced (Release-11) to provide a complete picture of the LTE system. Detailed explanations are given for the latest LTE standards for radio interface architecture, the physical layer, access procedures, broadcast, relaying, spectrum performance. Key technologies presented include multi-carrier transmission. advanced single-carrier transmission, advanced receivers, OFDM, MIMO and adaptive antenna solutions, radio resource management and protocols, and different radio network architectures. Their role and use in the context of mobile broadband high-level overview and more detailed stepby-step explanations. This book is a musthave resource for engineers and other professionals in the telecommunications industry, working with cellular or wireless broadband technologies, giving an understanding of how to utilize the new technology in order to stay ahead of the competition. New to this edition: In-depth description of CoMP and enhanced multiantenna transmission including new reference-signal structures and feedback mechanisms Detailed description of the support for heterogeneous deployments provided by the latest 3GPP release Detailed description of new enhanced downlink control-channel structure (EPDDCH) New RF configurations including operation in non-contiguous spectrum, multi-bands base stations and new frequency bands Overview of 5G as a set of well-integrated radio-access technologies, including support for higher frequency bands and flexible spectrum management, massive antenna configurations, and ultra-dense deployments Covers a complete update to the latest 3GPP engineers who are designing and developing Release-11 Two new chapters on HetNet, covering small cells/heterogeneous deployments, and CoMP, including Inter-

site coordination Overview of current status professional engineers, researchers and graduate of LTE release 12 including further enhancements of local-area, CoMP and multi-antenna transmission, Machine-typecommunication. Device-to-device communication

ICICT 2021, London, Volume 2 Cambridge **University Press** 

5G NR: Architecture, Technology, Implementation, and Operation of 3GPP New Radio Standards is an in-depth, systematic, technical reference on 3GPP's New Radio standards (Release 15 and beyond), covering the underlying theory, functional descriptions, practical considerations and implementation of the 5G new radio access technology. The book describes the design and operation of individual components and shows how they are integrated into the overall system and operate from a systems perspective. Uniquely, this book gives detailed information on RAN protocol layers, transport, network architecture and services, as well as practical implementation and deployment issues, making it suitable for researchers and 5G systems. Reflecting on the author's 30 plus years of experience in signal processing, microelectronics and wireless communication system design, this book is ideal for

students working and researching in cellular communication systems and protocols as well as mobile broadband wireless standards. Strong focus on practical considerations, implementation and deployment issues Takes a top-down approach to explain system operation and functional interconnection Covers all functional components, features, and interfaces based on clear protocol structure and block diagrams Describes RF and transceiver design considerations in sub-6 GHz and mmWave bands Covers network slicing, SDN/NFV/MEC networks and cloud and virtualized RAN architectures Comprehensive coverage of NR multi-antenna techniques and beamformed operation A consistent and integrated coverage reflecting the author's decades of experience in developing 3G, 4G and 5G technologies and writing two successful books in these areas Concepts and Technologies Wiley A one-stop reference that offers an accessible guide to an understanding of the enhanced core technologies of 5G 5G Second Phase Explained – The 3GPP Release 16 Enhancements offers an authoritative and essential guide to the new functionalities of the Release 16 that complement the first phase of the 5G. From

the author of 5G Explained comes the next step resource that includes detailed descriptions that provide a clear understanding to the full version of the 5G technologies and their impacts on the Phase overview of the latest research and 1 networks. The authora noted expert on the standardization progress towards the 5th topicnot only reviews the most up-to-date functionalities of the Release 16 but includes information on the forthcoming Release 17 as well as material on future developments. The book explores the highly (E2E) system architecture including core unique aspects of the Release 16, which can network (CN), transport network (TN) and help technical personnels efforts to deliver essential information in a practical way. The network slicing, security and network two books, 5G Explained and 5G Second Phase Explained, offer a comprehensive understanding of 5G. This important guide: evaluation of different 5G concepts, and Offers a summary of the newest and key features of 5G Presents a one-stop reference commercial deployments across the globe. for an understanding of the core technologies of 5G Contains a new book that expands on the authors 5G Explained Puts the focus on security and deployment aspects of 5G enhancements Written for technical personnel of network operators, network element and user device manufacturers, 5G Second Phase Explained address all envisioned 5G use cases, and offers guide to an understanding of network meet or exceed the International Mobile

deployment and device designing of 5G technologies.

**5G Technology** Springer Nature This book provides a comprehensive 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 radio access network (RAN) architecture, management. It further dives into the detailed functional design and the provides details on planned trials and pre-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,

Telecommunications (IMT) requirements for the year 2020 and beyond (IMT-2020). em style="mso-bidi-font-style: normal;"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. Springer Nature

This book is a collection of selected high-quality research papers presented at the International Conference on Computing in Engineering and Technology (ICCET 2021), organized by Dr. Babasaheb Ambedkar Technological University, Lonere, India, during January 30–31, 2021. Focusing on frontier topics and next-generation technologies, it presents original and innovative research from academics, scientists, students and engineers alike. The theme of the conference is Applied Information Processing System.

Digital Communication for Practicing **Engineers** Springer Nature 5G Outlook - Innovations and Applications is a collection of the recent research and development in the area of the Fifth Generation Mobile Technology (5G), the future of wireless communications. Plenty of novel ideas and knowledge of the 5G are presented in this book as well as divers applications from health science to business modeling. The authors of different chapters contributed from various countries and organizations. The chapters have also been presented at the 5th IEEE 5G Summit held in Aalborg on July 1, 2016. The book starts with a comprehensive introduction on 5G and its need and requirement. Then millimeter waves as a promising spectrum to 5G technology is discussed. The book continues with the novel and inspiring ideas for the future wireless communication usage and network. Further, some technical issues in signal processing and network design for 5G are presented. Finally, the book ends up with different applications of 5G in distinct areas. Topics widely covered in this book are: 5G technology from past to present to the futureMillimeter- waves and their characteristicsSignal processing and network design issues for 5GApplications, business modeling and several novel ideas for

the future of 5G

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