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The book presents a broad
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*overview of emerging smart
grid technologies and
communication systems,
offering a helpful guide for
future research in the field
of electrical engineering
and communication
engineering. It explores*

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recent advances in several computing technologies and their performance evaluation, and addresses a wide range of topics, such as the essentials of smart grids for fifth generation (5G) communication systems.

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It also elaborates the role of emerging communication systems such as 5G, internet of things (IoT), IEEE 802.15.4 and cognitive radio networks in smart grids. The book includes detailed surveys and case studies on

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current trends in smart grid systems and communications for smart metering and monitoring, smart grid energy storage systems, modulations and waveforms for 5G networks. As such, it will be of interest to

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*practitioners and
researchers in the field of
smart grid and communication
infrastructures alike.*

*Comprehensive Handbook
Demystifies 5G for Technical
and Business Professionals
in Mobile Telecommunication*

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Fields Much is being said regarding the possibilities and capabilities of the emerging 5G technology, as the evolution towards 5G promises to transform entire industries and many aspects of our society. 5G for the

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Connected World offers a comprehensive technical overview that telecommunication professionals need to understand and take advantage of these developments. The book

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offers a wide-ranging coverage of the technical aspects of 5G (with special consideration of the 3GPP Release 15 content), how it enables new services and how it differs from LTE. This includes information on

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potential use cases, aspects of radio and core networks, spectrum considerations and the services primarily driving 5G development and deployment. The text also looks at 5G in relation to the Internet of Things,

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*machine to machine
communication and technical
enablers such as LTE-M, NB-
IoT and EC-GSM. Additional
chapters discuss new
business models for
telecommunication service
providers and vertical*

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*industries as a result of
introducing 5G and
strategies for staying ahead
of the curve. Other topics
include: Key features of the
new 5G radio such as
descriptions of new
waveforms, massive MIMO and*

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*beamforming technologies as
well as spectrum
considerations for 5G radio
regarding all possible bands
Drivers, motivations and
overview of the new 5G
system - especially RAN
architecture and technology*

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enablers (e.g. service-based architecture, compute-storage split and network exposure) for native cloud deployments Mobile edge computing, Non-3GPP access, Fixed-Mobile Convergence Detailed overview of

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*mobility management, session
management and Quality of
Service frameworks 5G
security vision and
architecture Ultra-low
latency and high reliability
use cases and enablers,
challenges and requirements*

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*(e.g. remote control,
industrial automation,
public safety and V2X
communication) An outline of
the requirements and
challenges imposed by
massive numbers of devices
connected to cellular*

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networks While some familiarity with the basics of 3GPP networks is helpful, 5G for the Connected World is intended for a variety of readers. It will prove a useful guide for telecommunication

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*professionals,
standardization experts,
network operators,
application developers and
business analysts (or
students working in these
fields) as well as
infrastructure and device*

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vendors looking to develop and integrate 5G into their products, and to deploy 5G radio and core networks.

C-RAN and virtualized Small Cell technology poses several major research challenges. These include

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*dynamic resource allocation,
self-configuration in the
baseband pool, high latency
in data transfer between
radio unit and baseband
unit, the cost of data
delivery, high volume of
data in the network,*

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*software networking aspects,
potential energy savings,
security concerns, privacy
of user's personal data at a
remote place, limitations of
virtualized environment,
etc. This book provides
deeper insights into the*

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*next generation RAN
architecture and surveys the
coexistence of SDN, C-RAN
and Small Cells solutions
proposed in the literature
at different levels.*

*Over the past decade there
have been massive advances*

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in the areas of mobile and optical fiber communications. This unique book shows you how to combine these methods to create new radio over fiber technologies that offer seamless operation and

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*greater multimedia
application potential for
your current and third
generation mobile
communication networks.
5G Radio Access Networks
Cloud Mobile Networks
Springer Handbook of Optical*

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Networks

Validating VoLTE

Academic Press Library in

Mobile and Wireless

Communications

Radio Over Fiber

Technologies for Mobile

Communications Networks

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*Cooperative Wireless
Cellular Systems*

"Optical Communications in the 5G Era provides an up-to-date overview of the emerging optical communication technologies for 5G wireless networks. It outlines

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the emerging applications of optical networks in supporting future wireless networks, state-of-the-art optical communication technologies, and explores new R&D opportunities in the field of converged fixed-mobile networks.

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This book is an ideal reference for university researchers, graduate students, and industry R&D engineers in optical communications, photonics, and wireless communications who need a broad and deep

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understanding of modern optical communication technologies, systems, and networks that are fundamental to 5G and beyond." • Describes 5G wireless trends and technologies such as cloud radio access networks (C-RAN), massive

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multiple-input and multiple-output (MIMO), and coordinated multipoint (CoMP) • Gives an insight into recent advances on the common public radio interface (CPRI), the evolved CPRI (eCPRI), and the open radio access

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networks (O-RAN) interface •
Presents X-haul technologies and
how transportation technologies
can satisfy the mobile network
requirements • Describes recent
technological advances in access,
aggregation, metro, data center,

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backbone, and undersea optical networks • Discusses the vision and use cases of the 5th generation fixed network (F5G) to help realize a fully connected, intelligent world for the benefit of our global society

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This book is based on both industrial and academic research efforts in which a number of recent advancements and rare insights into telecommunication systems are well presented. The volume is organized into four parts:

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"Telecommunication Protocol,
Optimization, and Security
Frameworks", "Next-Generation
Optical Access Technologies",
"Convergence of Wireless-Optical
Networks" and "Advanced Relay
and Antenna Systems for Smart

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Networks." Chapters within these parts are self-contained and cross-referenced to facilitate further study.

This book includes high impact papers presented at the International Conference on

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Communication, Computing and Electronics Systems 2019, held at the PPG Institute of Technology, Coimbatore, India, on 15-16 November, 2019. Discussing recent trends in cloud computing, mobile computing, and

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advancements of electronics systems, the book covers topics such as automation, VLSI, embedded systems, integrated device technology, satellite communication, optical communication, RF

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communication, microwave engineering, artificial intelligence, deep learning, pattern recognition, Internet of Things, precision models, bioinformatics, and healthcare informatics.

A comprehensive resource

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containing the operating principles and key insights of LTE networks performance optimization LTE Optimization Engineering Handbook is a comprehensive reference that describes the most current technologies and

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optimization principles for LTE networks. The text offers an introduction to the basics of LTE architecture, services and technologies and includes details on the key principles and methods of LTE optimization and its

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parameters. In addition, the author clarifies different optimization aspects such as wireless channel optimization, data optimization, CSFB, VoLTE, and video optimization. With the ubiquitous usage and increased development

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of mobile networks and smart devices, LTE is the 4G network that will be the only mainstream technology in the current mobile communication system and in the near future. Designed for use by researchers, engineers and

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operators working in the field of mobile communications and written by a noted engineer and experienced researcher, the LTE Optimization Engineering Handbook provides an essential guide that: Discusses the latest

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optimization engineering
technologies of LTE networks and
explores their implementation
Features the latest and most
industrially relevant applications,
such as VoLTE and HetNets
Includes a wealth of detailed

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scenarios and optimization real-world case studies Professionals in the field will find the LTE Optimization Engineering Handbook to be their go-to reference that includes a thorough and complete examination of LTE

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networks, their operating principles, and the most current information to performance optimization.

Opportunities and Challenges in
Cloud, Fog and Edge Computing
Tactile Internet

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Cloud Radio Access Networks

5G Radio Access Network
Architecture

Proceedings of ICCCES 2019

Centralized RAN, Cloud-RAN and
Virtualization of Small Cells

Fiber-Wireless Convergence in

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Next-Generation Communication
Networks

5G NR: Architecture,
Technology,
Implementation, and
Operation of 3GPP New
Radio Standards is an in-

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depth, systematic,
technical reference on
3GPP's New Radio standards
(Release 15 and beyond),
covering the underlying
theory, functional
descriptions, practical

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considerations and implementation of the 5G new radio access technology. The book describes the design and operation of individual components and shows how

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they are integrated into the overall system and operate from a systems perspective. Uniquely, this book gives detailed information on RAN protocol layers,

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transport, network
architecture and services,
as well as practical
implementation and
deployment issues, making
it suitable for
researchers and engineers

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who are designing and
developing 5G systems.
Reflecting on the author's
30 plus years of
experience in signal
processing,
microelectronics and

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wireless communication
system design, this book
is ideal for professional
engineers, researchers and
graduate students working
and researching in
cellular communication

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systems and protocols as well as mobile broadband wireless standards. Strong focus on practical considerations, implementation and deployment issues Takes a

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top-down approach to
explain system operation
and functional
interconnection Covers all
functional components,
features, and interfaces
based on clear protocol

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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

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cloud and virtualized RAN
architectures

Comprehensive coverage of
NR multi-antenna

techniques and beamformed
operation A consistent and
integrated coverage

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reflecting the author's
decades of experience in
developing 3G, 4G and 5G
technologies and writing
two successful books in
these areas

This book provides a

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comprehensive overview of the emerging technologies for next-generation 5G mobile communications, with insights into the long-term future of 5G. Written by international

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leading experts on the subject, this contributed volume covers a wide range of technologies, research results, and networking methods. Key enabling technologies for 5G

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systems include, but are not limited to, millimeter-wave communications, massive MIMO technology and non-orthogonal multiple access. 5G will herald an even greater

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rise in the prominence of mobile access based upon both human-centric and machine-centric networks. Compared with existing 4G communications systems, unprecedented numbers of

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smart and heterogeneous wireless devices will be accessing future 5G mobile systems. As a result, a new paradigm shift is required to deal with challenges on explosively

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growing requirements in
mobile data traffic volume
(1000x), number of
connected devices
(10-100x), typical end-
user data rate (10-100x),
and device/network

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lifetime (10x). Achieving these ambitious goals calls for revolutionary candidate technologies in future 5G mobile systems. Designed for researchers and professionals involved

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with networks and communication systems, 5G Mobile Communications is a straightforward, easy-to-read analysis of the possibilities of 5G systems.

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This book provides a comprehensive introduction of Fog Radio Access Networks (F-RANs), from both academic and industry perspectives. The authors first introduce the

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network architecture and the frameworks of network management and resource allocation for F-RANs. They then discuss the recent academic research achievements of F-RANs,

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such as the analytical results of theoretical performance limits and optimization theory-based resource allocation techniques. Meanwhile, they discuss the

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application and implementations of F-RANs, including the latest standardization procedure, and the prototype and test bed design. The book is concluded by summarizing

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the existing open issues and future trends of F-RANs. Includes the latest theoretical and technological research achievements of F-RANs, also discussing existing

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open issues and future trends of F-RANs toward 6G from an interdisciplinary perspective; Provides commonly-used tools for research and development of F-RANs such as open

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resource projects for
implementing prototypes
and test beds; Includes
examples of prototype and
test bed design and gives
tools to evaluate the
performance of F-RANs in

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simulations and
experimental
circumstances.

Opportunities are at hand
for professionals eager to
learn and apply the latest
theories and practices in

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technologies. Written by experienced researchers and professionals, LTE-Advanced Air Interface Technology thoroughly covers the performance

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targets and technology
components studied by 3GPP
for LTE-Advanced. Besides
being an expla
3GPP New Radio
Vehicular Applications and
Inter-Networking

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Technologies

Signal Processing for 5G:
Algorithms and
Implementations
5G NR
From RAN to EPC
Troubleshooting and

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Optimization

5G Networks

This book presents select
proceedings of the International
Conference on Futuristic
Communication and Network
Technologies (CFCNT 2020)

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conducted at Vellore Institute of Technology, Chennai. It covers various domains in communication engineering and networking technologies. This volume comprises of recent research in areas like optical

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communication, optical networks,
optics and optical computing,
emerging trends in photonics,
MEMS and sensors, active and
passive RF components and
devices, antenna systems and
applications, RF devices and

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antennas for microwave
emerging technologies, wireless
communication for future
networks, signal and image
processing, machine learning/AI
for networks, internet of
intelligent things, network

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security and blockchain technologies. This book will be useful for researchers, professionals, and engineers working in the core areas of electronics and communication. This book constitutes the

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proceedings of the 15th IFIP
International Conference on
Wired/Wireless Internet
Communications, WWIC 2017,
held in St. Petersburg, Russia, in
June 2017. The 27 papers
presented in this volume were

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carefully reviewed and selected from 76 submissions. They were organized in topical sections named: network analysis and dimensioning; 5G communications; network design and planning; network protocols;

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information technology; and
circuit design.

This book provides an invaluable
introduction to inter-vehicular
communications, demonstrating
the networking and
communication technologies for

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reducing fatalities, improving transportation efficiency, and minimising environmental impact. This book addresses the applications and technical aspects of radio-based vehicle-to-vehicle and vehicle-to-

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infrastructure communication that can be established by short- and medium range communication based on wireless local area network technology (primarily IEEE 802.11). It contains a coherent

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treatment of the important topics and technologies contributed by leading experts in the field, covering the potential applications for and their requirements on the communications system. The

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authors cover physical and medium access control layer issues with focus on IEEE 802.11-based systems, and show how many of the applications benefit when information is efficiently

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disseminated, and the techniques that provide attractive data aggregation (also includes design of the corresponding middleware). The book also considers issues such as IT-security (means and

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fundamental trade-off between security and privacy), current standardization activities such as IEEE 802.11p, and the IEEE 1609 standard series. Key Features: Covers the state-of-the-art in the field of vehicular inter-

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networks such as safety and efficiency applications, physical and medium access control layer issues, middleware, and security Shows how vehicular networks differ from other mobile networks and illustrates the idea of vehicle-

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to-vehicle communications with application scenarios and with current proofs of concept worldwide Addresses current standardization activities such as IEEE 802.11p and the IEEE 1609 standard series Offers a

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chapter on mobility models and their use for simulation of vehicular inter-networks Provides a coherent treatment of the important topics and technologies contributed by leading academic and industry

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experts in the field This book provides a reference for professional automotive technologists (OEMS and suppliers), professionals in the area of Intelligent Transportation Systems, and researchers

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attracted to the field of wireless vehicular communications. Third and fourth year undergraduate and graduate students will also find this book of interest. For additional information please visit <http://www.vanetbook.com>

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This book outlines a VoLTE (Voice over Long Term Evolution) test plan that ensures a correct, stable, and effective VoLTE deployment. These scenarios cover major functional and characterization

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requirements of a VoLTE network. Each test provides a description, test steps, and expected results. The test plan provides significant benefits when executed before deployment, and also as part of

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an ongoing regression environment as network elements are upgraded and expanded over the network lifetime. This book is a collection of input gathered from our work with leading equipment vendors

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and mobile operators globally.

Key Technologies for 5G

Wireless Systems

Implementing Software Defined
Radio

Principles and Applications of

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Wireless-Optical Technologies
Wired/Wireless Internet
Communications
LTE Signaling
Probabilistic models for
computer networks: Tools and
solved problems

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This book is intended to describe how to leverage emerging technologies big data analytics and SDN, to address challenges specific to LTE and IP network performance and fault management data in order to more efficiently manage and operate an LTE wireless networks.

The proposed integrated solutions permit the LTE network service provider to operate entire integrated network, from RAN to Core , from UE to application service, as one unified system and correspondingly collect and align disparate key metrics and data, using an

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integrated and holistic approach to network analysis. The LTE wireless network performance and fault involves the network performance and management of network elements in EUTRAN, EPC and IP transport components, not only as individual components, but also as

nuances of inter-working of these components. The key metrics for EUTRAN include radio access network accessibility, retainability, integrity, availability and mobility. The key metrics for EPC include MME accessibility, mobility and capacity, SGW, PGW capacity and

connectivity. In the first parts of the book, the authors describe fundamental analytics techniques, and various key network partitions - RAN, Backhaul, Metro and Core of a typical LTE Wireless Service Provider Network. The second part of the book develops more

advanced analytic techniques that can be used to solve complex wireless network problems. The second part of this book also describes practical and novel solutions for LTE service network performance and fault management systems using big data

engineering. Self-organizing network (SON) architecture is presented as a way to utilize network performance and fault analytics to enable network automation. SON can significantly improve operational efficiencies and speed up network deployment.

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This book provides various ways to leverage data science to more intelligently and reliably to automate and manage a wireless network. The contents of the book should be useful to professional engineers and networking experts involved in LTE network operations

and management. The content will also be of interest to researchers, academic and corporate, interested in the developments in fault analytics in LTE networks.

This book, edited and authored by world leading experts, gives a review of the principles, methods

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and techniques of important and emerging research topics and technologies in wireless communications and transmission techniques. The reader will: Quickly grasp a new area of research Understand the underlying principles of a topic and its

application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Reviews important and emerging topics of research in wireless technology in a quick tutorial format Presents core principles in wireless transmission

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***theory Provides reference content
on core principles, technologies,
algorithms, and applications
Includes comprehensive references
to journal articles and other
literature on which to build further,
more specific and detailed
knowledge***

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Written by an industry insider with state of the art research at their fingertips, this book describes the Radio Access Network (RAN) architecture, starting with currently deployed 4G, followed by the description of 5G requirements and why re-thinking of the RAN

architecture is needed to support these. Based on these considerations, it explains how 5G network architecture, which is currently being defined, is likely to evolve. The aim is not merely to cover relevant standards and technologies as a purely academic

exercise (although a significant part of the book will be dedicated to these), but to augment these by practical deployment, to illustrate why the RAN architecture is changing and where it is going. With 5G deployments on the horizon, there is a desire within

companies to both re-think the RAN architecture and to change the proprietary nature of the RAN.

Correspondingly, there is increased interest in academia, standards bodies and commercial entities involved in the area.

In this monograph, the impact of

cooperation on the performance of wireless cellular systems is studied from an information-theoretic standpoint, focusing on simple formulations typically referred to as Wyner-type models. Following ongoing research and standardization efforts, the text

covers two main classes of cooperation strategies. The first class is cooperation at the base station (BS) level, which is also known as Multi-Cell Processing (MCP), network Multiple-Input Multiple-Output (MIMO), or Coordinated Multi-Point

***transmission/reception (CoMP).
With MCP, cooperative decoding,
for the uplink, or encoding, for the
downlink, is enabled at the BSs.
MCP is made possible by the
presence of an architecture of,
typically wired, backhaul links
connecting individual BSs to a***

central processor (CP) or to one another. The second class of cooperative strategies allows cooperation in the form of relaying for conveying data between Mobile Stations (MSs) and BSs in either the uplink or the downlink. Relaying can be enabled by two possible

architectures. A first option is to deploy dedicated Relay Stations (RSs) that are tasked with forwarding uplink or downlink traffic. The second option is for the MSs to act as RSs for other MSs. An Information-Theoretic View Principles, Technologies, and

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Applications

5G Technology

The Dark Side of 5G

Futuristic Communication and

Network Technologies

Smart Grids and Their

Communication Systems

15th IFIP WG 6.2 International

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Conference, WWIC 2017, St.

**Petersburg, Russia, June 21–23,
2017, Proceedings**

This unique text will enable readers to understand the fundamental theory, current techniques, and potential applications of Cloud Radio Access Networks (C-RANs).

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Leading experts from academia and industry provide a guide to all of the key elements of C-RANs, including system architecture, performance analysis, technologies in both physical and medium access control layers, self-organizing and green networking, standards

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development, and standardization perspectives. Recent developments in the field are covered, as well as open research challenges and possible future directions. The first book to focus exclusively on Cloud Radio Access Networks, this is essential reading for engineers in

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academia and industry working on future wireless networks.

This book provides a comprehensive view of green communications considering all areas of ICT including wireless and wired networks. It analyses particular concepts and

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practices, addressing holistic approaches in future networks considering a system perspective. It makes full use of tables, illustrations, performance graphs, case studies and examples making it accessible for a wide audience.

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Tactile Internet with Human-in-the-Loop describes the change from the current Internet, which focuses on the democratization of information independent of location or time, to the Tactile Internet, which democratizes skills to promote equity that is independent of age,

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gender, sociocultural background or physical limitations. The book promotes the concept of the Tactile Internet for remote closed-loop human-machine interaction and describes the main challenges and key technologies. Current standardization activities in the field

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for IEEE and IETF are also described, making this book an ideal resource for researchers, graduate students, and industry R&D engineers in communications engineering, electronic engineering, and computer engineering. Provides a comprehensive

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reference that addresses all aspects of the Tactile Internet – technologies, engineering challenges, use cases and standards Written by leading researchers in the field Presents current standardizations surrounding the IETF and the IEEE

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Contains use cases that illustrate practical applications

Gain a detailed understanding of the protocols, network architectures and techniques being considered for 5G wireless networks with this authoritative guide to the state of the art. • Get

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up to speed with key topics such as cloud radio access networks, mobile edge computing, full duplexing, massive MIMO, mmWave, NOMA, Internet of things, M2M communications, D2D communications, mobile data offloading, interference mitigation

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techniques, radio resource management, visible light communications, and smart data pricing. • Learn from leading researchers in academia and industry about the most recent theoretical developments in the field. • Discover how each potential

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technology can increase the capacity, spectral efficiency, and energy efficiency of wireless systems. Providing the most comprehensive overview of 5G technologies to date, this is an essential reference for researchers, practicing engineers and graduate

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students working in wireless
communications and networking.
Enabling Backhaul, Midhaul, and
Fronthaul
Next Generation Wireless
Communications Using Radio over
Fiber
3GPP Evolution to Release 13

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Optical Communications in the 5G
Era

5G and Beyond Wireless Transport
Technologies

Optical Fiber Telecommunications
Principles, Concepts and Practice

This book provides a comprehensive
picture of mobile big data starting

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from data sources to mobile data driven applications. Mobile Big Data comprises two main components: an overview of mobile big data, and the case studies based on real-world data recently collected by one of the largest mobile network carriers in China. In the first component, four

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areas of mobile big data life cycle are surveyed: data source and collection, transmission, computing platform and applications. In the second component, two case studies are provided, based on the signaling data collected in the cellular core network in terms of subscriber privacy

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evaluation and demand forecasting for network management. These cases respectively give a vivid demonstration of what mobile big data looks like, and how it can be analyzed and mined to generate useful and meaningful information and knowledge. This book targets

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researchers, practitioners and professors relevant to this field. Advanced-level students studying computer science and electrical engineering will also be interested in this book as supplemental reading. A comprehensive guide to 5G technology, applications and

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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 comprehensive

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resource that offers explanations of 5G specifications, performance evaluations, aspects of device design, practical deployment considerations and illustrative examples from field experiences. With contributions from a panel of international experts on the topic, the book presents the main

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new technology components in 5G and describes the physical layer, radio protocols 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

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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

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technology and its applications
Contains contributions from
international experts on the topic
Reviews the main technology
components in 5G Includes
information on the optimisation of
the Internet of things Presents
illustrative examples of practical field

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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 promotes the opportunity to take full benefit of new capabilities.

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A reliable and focused treatment of the emergent technology of fifth generation (5G) networks This book provides an understanding of the most recent developments in 5G, from both theoretical and industrial perspectives. It identifies and discusses technical challenges and

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recent results related to improving capacity and spectral efficiency on the radio interface side, and operations management on the core network side. It covers both existing network technologies and those currently in development in three major areas of 5G: spectrum

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extension, spatial spectrum utilization, and core network and network topology management. It explores new spectrum opportunities; the capability of radio access technology; and the operation of network infrastructure and heterogeneous QoE provisioning. 5G

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Networks: Fundamental Requirements, Enabling Technologies, and Operations Management is split into five sections: Physical Layer for 5G Radio Interface Technologies; Radio Access Technology for 5G Networks; 5G Network Interworking and Core

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Network Advancements; Vertical 5G Applications; and R&D and 5G Standardization. It starts by introducing emerging technologies in 5G software, hardware, and management aspects before moving on to cover waveform design for 5G and beyond; code design for multi-

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user MIMO; network slicing for 5G networks; machine type communication in the 5G era; provisioning unlicensed LAA interface for smart grid applications; moving toward all-IT 5G end-to-end infrastructure; and more. This valuable resource: Provides a

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comprehensive reference for all layers of 5G networks Focuses on fundamental issues in an easy language that is understandable by a wide audience Includes both beginner and advanced examples at the end of each section Features sections on major open research

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challenges 5G Networks:
Fundamental Requirements, Enabling
Technologies, and Operations
Management is an excellent book for
graduate students, academic
researchers, and industry
professionals, involved in 5G
technology.

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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

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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

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meet the increasing demands imposed by applications such as big data, cloud service, machine-to-machine (M2M) and mission-critical communications. This book is a comprehensive and detailed guide to all signal processing techniques employed in 5G wireless networks.

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Uniquely organized into four categories, New Modulation and Coding, New Spatial Processing, New Spectrum Opportunities and New System-level Enabling Technologies, it covers everything from network architecture, physical-layer (down-link and up-link), protocols and air

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interface, to cell acquisition, scheduling and rate adaptation, 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-

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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

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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

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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

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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

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

Architectures, Technologies, and Applications

5G Mobile Communications

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VANET

The Cloud-to-Thing Continuum
A Definitive Guide to Successful
Deployments

Select Proceedings of VICFCNT 2020
Network Performance and Fault
Analytics for LTE Wireless Service
Providers

This book investigates new enabling technologies for Fi-Wi convergence. The editors discuss Fi-Wi technologies at the three major network levels involved in the path towards convergence: system level, network architecture level, and network management level. The main topics will be: a. At system level: Radio

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**over Fiber (digitalized vs. analogic,
standardization, E-band and beyond)
and 5G wireless technologies; b.
Network architecture level: NGPON,
WDM-PON, BBU Hotelling, Cloud
Radio Access Networks (C-RANs),
HetNets. c. Network management level:
SDN for convergence, Next-generation**

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**Point-of-Presence, Wi-Fi LTE
Handover, Cooperative MultiPoint.
International Conference on
Communication, Computing and
Electronics Systems Proceedings of
ICCCES 2019 Springer Nature**
**This book explores the challenges and
opportunities in exploiting cloud**

technologies for 5G, ranging from radio access network (RAN) to the evolved packet core (EPC). With a specific focus on cloud RAN and EPC, the text carefully explains the influence of recent network technologies such as software defined networking (SDN), visualization, and cloud technologies in

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the evolution of architecture for future mobile networks. The book discusses the causes, benefits and challenges of cloud RAN and its interplay with other evolving technologies for future mobile networks. Researchers and professionals involved in mobile technology or cloud computing will find

this book a valuable resource. The text is also suitable for advanced-level students studying all types of networking.

Optical Fiber Telecommunications, Volume Eleven, covers the latest in optical fiber communications and their potential to penetrate and complement

other forms of communication, such as wireless access, on-premises networks, interconnects and satellites. This updated edition of this classic, first published in 1979, examines opportunities for future optical fiber technology by presenting the latest advances on key topics, such as 5G

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wireless access, inter and intra data center communications, THz technologies, secure communications, and free space digital optical links. Topics of note include sections on foundries for widespread user access, designing photonic integrated circuits (PICs), monolithic and hybrid

integration technologies, nanophotonics, and advanced and non-conventional data modulation formats. The traditional emphasis of achieving higher data rates and longer transmission distances are also addressed through chapters on space-division-multiplexing using multimode and multicore fibers,

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undersea cable systems, and reconfigurable networking. This book is an indispensable reference on the latest advances in key technologies for future fiber optic communications. It is suitable for university and industry researchers, graduate students, optical systems implementers, network

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**operators, managers and investors.
Updated edition presents the latest
advances in optical fiber components,
systems, subsystems and networks
Written by leading authorities from
academia and industry Gives a self-
contained overview of specific
technologies, covering both the state-of-**

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**the-art and future research challenges
Systems, Architectures, and
Management
Architecture, Technology,
Implementation, and Operation of
3GPP New Radio Standards
5G for the Connected World
Green Communications**

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**LTE Small Cell Optimization
Fundamental Requirements, Enabling
Technologies, and Operations
Management
Transmission Techniques for Digital
Communications**

*This text covers the key
technologies employed in*

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*wireless links that enable
increased data rates and
thus are likely to be
employed in support of 5G
wireless transport
networks, i.e., backhaul,
midhaul, and fronthaul*

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networks. The author presents technologies at an introductory level but nonetheless at a level that imparts to the reader a sound understanding of the fundamentals. The book

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is intended for those practicing engineers and graduate and upper undergraduate students who have an interest in acquiring, where missing, the necessary technology

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*background in order to
comprehend the functioning
and capability of 5G based
wireless transport links.
The author focuses on
those technologies that
are key to achieving the*

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high data rates and high reliability required of this transport. The material is presented in a clear, concise, and mathematically light fashion. Covers key

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*wireless transport
(backhaul, midhaul, and
fronthaul) technologies
for 5G and beyond,
presented in a clear
tractable fashion;
Outlines the basic*

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*wireless transport
transmitter/receiver
terminal architecture,
provides specifications of
some such terminals, and
indicates the link
performance afforded by*

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*such terminals; Provides
sufficient mathematics to
make it technically
coherent, but not so much
as to make it challenging
for a reader with no or
limited familiarity with*

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these technologies.

*Probabilistic models for
computer networks: Tools
and solved problems
overviews the main
probabilistic tools and
theory used in the*

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*performance analysis and
modelling of modern
computer networks and
communication systems.
With over one hundred
examples and solved
problems, the reader will*

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be introduced to Poisson processes, Markov chains and queueing theory in an intuitive manner.

Important theorems and tools are followed by easy network-based examples,

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showing the reader their applicability in real scenarios. This book is highly recommended for students in their final years of a degree in engineering, and for Ph.D.

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*students willing to
strengthen their skills in
the evaluation of network
performance.*

*Taking a coherent and
logical approach, this
book describesthe*

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potential use of co-ordinated multipoint systems supported by radio over fiber. It covers an impressive breadth of topics, ranging from components, subsystem and

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*system architecture,
tonetwork management and
business perspectives. The
authors showthe importance
of radio over fiber in
eliminating or
mitigatingagainst the*

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*current, perceived
barriers to the use of co-
ordinated multipoint, and
the drivers for
standardisation activities
in future mobile/wireless
systems over the next few*

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years. The book brings together the system concept for centralized processing, including what is required for co-existence with legacy wireless systems,

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*the algorithms that can be
used for improving wireless
bandwidth utilization at
physical and MAC layers
and the radio over fiber
network and link design
necessary to support*

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*thewireless system. Other
important research is
alsocovered as the authors
look at compensating for
radio over
fiberimpairments and
providing simple network*

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management functions. A study of service provision and the business case for such a future wireless system is also fully considered. This book comes at an important time

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*for future wireless
systems with
standardization of fourth
generation wireless
systems still ongoing. The
content enables readers to
make key decisions*

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about future

*standardisation and their
own research work. The
business analysis also
makes the book useful to
those involved in
deciding the future*

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*directions of telecoms
organisations. This
information will be core to
their decision-making as
it provides
technical knowledge of the
state-of-the-art but also*

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*system level assessmentsof
what is possible in a
business environment.*

*LTE network capabilities
are enhanced with small
cell deployment, with
optimization and with new*

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3GPP features. LTE networks are getting high loaded which calls for more advanced optimization. Small cells have been discussed in the communications industry

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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

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*and standardization
activities on LTE small
cells and network
optimization, focusing on
3GPP evolution to Release
13. It covers LTE small
cells from specification*

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*to products and field
results; Latest 3GPP
evolution to Release 13;
and LTE optimization and
learnings from the field.
International Conference
on Communication,*

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*Computing and Electronics
Systems*

*LTE-Advanced Air Interface
Technology*

Mobile Big Data

*Fog Radio Access Networks
(F-RAN)*

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LTE Optimization

Engineering Handbook

with Human-in-the-Loop

Telecommunication Systems

Software Defined Radio makes
wireless communications easier, more
efficient, and more reliable. This book

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bridges the gap between academic research and practical implementation. When beginning a project, practicing engineers, technical managers, and graduate students can save countless hours by considering the concepts presented in these pages. The author

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covers the myriad options and trade-offs available when selecting an appropriate hardware architecture. As demonstrated here, the choice between hardware- and software-centric architecture can mean the difference between meeting an aggressive

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schedule and bogging down in endless design iterations. Because of the author's experience overseeing dozens of failed and successful developments, he is able to present many real-life examples. Some of the key concepts covered are: Choosing the right

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architecture for the market –
laboratory, military, or commercial,
Hardware platforms – FPGAs, GPPs,
specialized and hybrid devices,
Standardization efforts to ensure
interoperability and portability
State-of-the-art components for radio

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frequency, mixed-signal, and baseband processing. The text requires only minimal knowledge of wireless communications; whenever possible, qualitative arguments are used instead of equations. An appendix provides a quick overview of wireless

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communications and introduces most of the concepts the readers will need to take advantage of the material. An essential introduction to SDR, this book is sure to be an invaluable addition to any technical bookshelf. The Internet of Things offers massive

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societal and economic opportunities while at the same time significant challenges, not least the delivery and management of the technical infrastructure underpinning it, the deluge of data generated from it, ensuring privacy and security, and

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capturing value from it. This Open Access Pivot explores these challenges, presenting the state of the art and future directions for research but also frameworks for making sense of this complex area. This book provides a variety of perspectives on how

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technology innovations such as fog, edge and dew computing, 5G networks, and distributed intelligence are making us rethink conventional cloud computing to support the Internet of Things. Much of this book focuses on technical aspects of the Internet of

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Things, however, clear methodologies for mapping the business value of the Internet of Things are still missing. We provide a value mapping framework for the Internet of Things to address this gap. While there is much hype about the Internet of Things, we have

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yet to reach the tipping point. As such, this book provides a timely entrée for higher education educators, researchers and students, industry and policy makers on the technologies that promise to reshape how society interacts and operates. Theo Lynn is

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Full Professor of Digital Business at DCU Business School, Ireland and Director of the Irish Institute of Digital Business. John G. Mooney is Associate Professor of Information Systems and Technology Management at the Pepperdine Graziadio Business School,

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United States. Brian Lee is Director of the Software Research Institute at Athlone Institute of Technology.

Patricia Takako Endo is a Postdoctoral Research Fellow at the Irish Institute of Digital Business, Dublin City University, Ireland, and a Professor at

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Universidade de Pernambuco, Brazil.
A comprehensive reference on the call
procedures of 4G RAN and Core
networks, LTE Signaling,
Troubleshooting and Optimization
describes the protocols and procedures
of LTE. It explains essential topics

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from basic performance measurement counters, radio quality and user plane quality to the standards, architecture, objectives and functions of the different interfaces. The first section gives an overview of LTE/EPC network architecture, reference points,

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protocol stacks, information elements and elementary procedures. The proceeding parts target more advanced topics to cover LTE/EPC signalling and radio quality analysis. This book supplements the information provided in the 3GPP standards by giving

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readers access to a universal LTE/EPC protocol sequence to ensure they have a clear understanding of the issues involved. It describes the normal signaling procedures as well as explaining how to identify and troubleshoot abnormal network

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behavior and common failure causes.
Enables the reader to understand the
signaling procedures and parameters
that need to be analyzed when
monitoring UMTS networks Covers
the essential facts on signaling
procedures by providing first hand

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information taken from real LTE/EPC traces A useful reference on the topic, also providing sufficient details for test and measurement experts who need to analyze LTE/EPC signaling procedures and measurements at the most detailed level Contains a description of LTE air

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interface monitoring scenarios as well as other key topics up to an advanced level LTE Signaling, Troubleshooting and Optimization is the Long Term Evolution successor to the previous Wiley books UMTS Signaling and UMTS Performance Measurement.

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This handbook is an authoritative, comprehensive reference on optical networks, the backbone of today's communication and information society. The book reviews the many underlying technologies that enable the global optical communications

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infrastructure, but also explains current research trends targeted towards continued capacity scaling and enhanced networking flexibility in support of an unabated traffic growth fueled by ever-emerging new applications. The book is divided into

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four parts: Optical Subsystems for Transmission and Switching, Core Networks, Datacenter and Super-Computer Networking, and Optical Access and Wireless Networks. Each chapter is written by world-renown experts that represent academia,

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industry, and international government and regulatory agencies. Every chapter provides a complete picture of its field, from entry-level information to a snapshot of the respective state-of-the-art technologies to emerging research trends, providing something useful for

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the novice who wants to get familiar with the field to the expert who wants to get a concise view of future trends.