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"Complete text is presented as bullet points, ... content includes both introductory and advanced topics, ...

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Evolution In
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Edition
*based upon release 8
of the 3GPP
specifications"--P.
[4] of cover.*

*This book presents
insights,
interpretations,
concepts, and
interdependent views-
in the landscape of
mobile connectivity
and service-that*

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*emphasize the
significance of a
harmonious*

interplay,

cooperation, and

coalescing of a

variety of

interdisciplinary

domains of science

and art. Mobile

Evolution: Insights

on Connectivity and

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Service explores the

f
*With the rise of
mobile and wireless
technologies, more
sustainable networks
are necessary to
support
communication.*

*These next-
generation networks
can now be utilized*

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*to extend the
growing era of the
Internet of Things.*

*Enabling
Technologies and
Architectures for
Next-Generation
Networking
Capabilities is an
essential reference
source that explores
the latest research*

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*Evolution In
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*and trends in large-
scale 5G
technologies
deployment,
software-defined
networking, and
other emerging
network
technologies.*

*Featuring research
on topics such as
data management,*

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*heterogeneous
networks, and
spectrum sensing,
this book is ideally
designed for
computer engineers,
technology
developers, network
administrators and
researchers,
professionals, and
graduate-level*

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Evolution In
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*students seeking
coverage on current
and future network
technologies.*

*The U.S. Gulf Coast
provides a valuable
setting to study
deeply connected
natural and human
interactions and
feedbacks that have
led to a complex,*

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interconnected coastal system. The physical landscape in the region has changed significantly due to broad-scale, long-term processes such as coastal subsidence and river sediment deposition as well as short-term

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Edition
*episodic events such
as hurricanes.*

*Modifications from
human activities,
including building
levees and canals
and constructing
buildings and roads,
have left their own
imprint on the
natural landscape.*

This coupled natural-

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*human coastal
system and the
individual aspects
within it (physical,
ecological, and
human) are under
increased pressure
from accelerating
environmental
stressors such as sea
level rise,
intensifying*

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Evolution In
*hurricanes, and
Bullets 2nd
Edition
continued
population increase
with its
accompanying
coastal development.
Promoting the
resilience and
maintaining the
habitability of the
Gulf Coast into the
future will need*

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improved

Bullets 2nd

understanding of

the coupled natural-

human coastal

system, as well as

effective sharing of

this understanding

in support of

decision-making

and policies.

Understanding the

Long-term Evolution

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*Evolution In
Bullets 2nd
Edition*
*of the Coupled
Natural-Human
Coastal System*

*presents a research
agenda meant to
enable a better
understanding of
the multiple and
interconnected
factors that
influence long-term
processes along the*

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Gulf Coast. This report identifies scientific and technical gaps in understanding the interactions and feedbacks between human and natural processes, defines essential components of a research and development

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*program in response
to the identified
gaps, and develops
priorities for critical
areas of research.*

*This revised edition
of Communication
Systems from GSM
to LTE: An
Introduction to
Mobile Networks
and Mobile*

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Evolution In
Bullets 2nd
Edition
*Broadband Second
Edition (Wiley*

*2010) contains not
only a technical
description of the
different wireless
systems available
today, but also
explains the
rationale behind the
different
mechanisms and*

*this way, the
advantages and also
limitations of each
technology become
apparent. Offering
a solid introduction
to major global
wireless standards
and comparisons of*

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Evolution In
the different

wireless technologies
Edition.
and their

applications, this
edition has been

updated to provide
the latest directions
and activities in

3GPP

standardization up
to Release 12, and
importantly includes

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a new chapter on

Voice over LTE

(VoLTE). There are

new sections on

Building Blocks of a

Voice Centric

Device, Building

Blocks of a Smart

Phone, Fast

Dormancy, IMS and

High-Speed

Downlink Packet

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Evolution In
*Access, and Wi-Fi-
Protected Setup.*

*Other sections have
been considerably
updated in places
reflecting the
current state of the
technology. •*

*Describes the
different systems
based on the
standards, their*

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*practical
implementation and
design assumptions,
and the*

*performance and
capacity of each
system in practice is
analyzed and
explained •*

*Questions at the end
of each chapter and
answers on the*

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*accompanying
website make this
book ideal for self-
study or as course
material*

*Understanding the
Long-Term
Evolution of the
Coupled Natural-
Human Coastal
System
1860-2015*

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Air Interface

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*Technologies and
Performance*

*EPC and 4G Packet
Networks*

Introduction to

Mobile Network

Engineering: GSM,

3G-WCDMA, LTE

and the Road to 5G

Driving the Mobile

Broadband

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Revolution

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*Regional Inequality
in Spain*

**While 3G has
been an
outstanding
success, the ever-
growing demand
for higher data
rates and higher
quality mobile
communication**

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services

continues to fuel

conflict between

the rapidly

growing number

of users and

limited

bandwidth

resources. In the

future, a 100-fold

increase in

mobile data

traffic is

services

continues to fuel

conflict between

the rapidly

growing number

of users and

limited

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**expected. That
will necessitate
further**

**improvements to
3GPP LTE (Long-
Term Evolution)
and create
limitless**

**opportunities for
engineers who
understand the
technology and
how to apply it to**

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*Evolution In
Bullets, 2nd
Edition*
**deliver enhanced
services. Long
Term Evolution:
3GPP LTE Radio
and Cellular
Technology
outlines the best
way to position
yourself now for
future success.
With coverage
ranging from
basic concepts to**

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Edition

**current research,
this**

**comprehensive
reference**

**contains
technical**

information

**about all aspects
of 3GPP LTE. It**

**details low chip
rate, high-speed**

**downlink/uplink
packet access (H**

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Edition***
***SxPA)/TDSCDMA
EV 1x, LTE TDD,
and 3G TDD. It
introduces new
technologies and
covers
methodologies to
study the
performance of
frequency
allocation
schemes. The
authors also***

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***discuss the
proposed
architecture of
Mobile IPRR and
distributed
dynamic
architecture in
wireless
communication,
covering
performance
evaluation of the
TD-SCDMA LTE***

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**System. With
each passing day,
more and more
users are
demanding
mobile
broadband data
access
everywhere, to
facilitate
synchronization
of e-mails,
Internet access,**

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**specific
applications, and
file downloads to
mobile devices
such as cell
phones, smart
phones, PDAs,
and notebooks.**

**LTE, successor to
the 3G mobile
radio network, is
essential to
creating radio**

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***coverage in the
rollout phase and
high capacity all
over the radio
cell in the long
term. The 3GPP
LTE will become
increasingly
crucial to
supporting the
high demand of
data traffic rates
generated by***

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**future mobile
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user terminals.**

**Authored by
Edition
international
experts in the
field, this
practical book is
an extremely
valuable guide
that addresses
emerging current
and future
technologies**

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**associated with
Bullets 2nd
Edition**
**LTE and its future
direction.**

**Describes the
technological
solutions and
standards which
will enable the
migration of
voice and SMS
services over to
LTE/EPC networks
Main drivers for**

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***the introduction
of Long Term
Evolution of***

***UTRAN (LTE) is to
provide far better
end user
experience for
mobile
broadband
services.***

***However, service
providers also
need to have a***

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**clear strategy of
how to offer
voice and
messaging
services for
consumers and
enterprises. The
voice service
over LTE is
becoming
increasingly
important when
the smartphone**

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**penetration is
increasing
rapidly.**

**Smartphones
require both
good quality
voice and high
speed broadband
data. This book
provides the
exhaustive view
to industry-
approved**

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**technologies and
standards behind
the Voice over
LTE (VoLTE).**

**Whether a
decision maker or
technology
analyst, this book
explains a topic
of substantial
global market
interest. It
provides a good**

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**introduction to
the technology
and is useful for
operators who
may be deploying
VoLTE, product
managers
responsible for
VoLTE products
and those who
work in
implementation
and**

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**standardization
of related
technologies.**

**Provides a
comprehensive
overview of indus
try-approved
technologies and
standards,
providing vital
information for
decision makers
and those**

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**working on the
technology
Written by
authors working
at the cutting
edge of mobile
communications
technology
today, bringing a
mix of standards
and product
background,
guaranteeing in-**

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**depth practical
and standards
information**

**Covering the
technical and
practical
elements of
VoLTE, explaining
the various
approaches for
providing voice
services over LTE
Research on the**

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**topic of clusters
and industrial
districts is very
extensive.**

**However, most of
it has focused
more on
understanding
the past than on
trying to map out
the future. The
aim of this book
is to fill this gap**

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***by identifying
and discussing
the main***

***research topics
that populate the
current scientific
debate and
highlight the
emergent lines of
research that will
constitute the
future research
agenda. It does***

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Evolution In

***so by drawing on
the debate***

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Edition

started with the

"rethinking

clusters"

workshops, which

in a short time

have become a

rich place for

discussion among

cluster scholars

around the world.

Rethinking

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**Clusters: Towards
a New Research
Agenda for
Cluster Research
collects
contributions
from
authoritative
colleagues, who
cover a number
of relevant and
timely issues,
such as the**

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**territorial roots
of radical**

innovation

**processes, new
ways of**

understanding

and measuring

the role of place

in economic

development,

path renewal, int

ernationalization

and

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*entrepreneurship
Bullets 2nd
Edition*
**. The final section
is devoted to the
critical analysis
of policies that
support smart
specialization.
The chapters in
this book were
originally
published as a
special issue of
the journal**

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**European
Planning Studies.**

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**A comparative
introduction to
major global
wireless
standards,
technologies and
their applications
From GSM to LTE-
Advanced Pro
and 5G: An
Introduction to**

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**Mobile Networks
and Mobile**

**Broadband, 3rd
Edition provides
technical
descriptions of
the various
wireless
technologies
currently in use.
It explains the
rationales behind
their differing**

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*Evolution In
Bullets, 2nd
Edition*
**mechanisms and
implementations
while exploring
the advantages
and limitations of
each technology.
This edition has
been fully
updated and
substantially
expanded to
reflect the
significant**

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Evolution In
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Edition

***evolution in
mobile network
technology
occurring over
the past several
years. The
chapter on LTE
has been
extensively
enhanced with
new coverage of
current
implementations***

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Evolution In
**of LTE carrier
aggregation,
mobility**

**management, cell
reselection and
handover
procedures, as
well as the latest
developments in
5G radio and core
networks in
3GPP. It now
features**

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**additional
information on
the TD-LTE air**

**interface, IPv6 in
mobile networks,
Network Function
Virtualization**

**(NFV) and
Narrowband
Internet of**

**Things (NB-IOT).
Voice-over-LTE
(VoLTE) is now**

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***treated
extensively in a
separate chapter
featuring***

***coverage of the
VoLTE call
establishment***

***process,
dedicated bearer
setup, header
compression,
speech codec and***

bandwidth

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**negotiation,
Bullets 2nd
Edition
supplementary
service**

**configuration and
VoLTE emergency
calls. In addition,
extensive
coverage of Voice-
over-Wifi and
mission critical
communication
for public safety
organizations**

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***over LTE has
been added. The
WLAN chapter
now provides
coverage of WPA
2-Professional
with certificates
for
authentication in
large
deployments,
such as the
global Eduroam***

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**network and the
new WLAN 60
GHz air interface.
Bluetooth
evolution has
been addressed
by including a
detailed
description of
Bluetooth Low
Energy (BLE) in
the chapter
devoted to**

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Evolution In
Bluetooth.

**Describes the
different systems
based on the
standards, their
practical
implementation
and design
assumptions, and
the performance
and capacity of
each system in
practice is**

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*Evolution In
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**analyzed and
explained**

**Questions at the
end of each
chapter and
answers on the
accompanying
website make
this book ideal
for self-study or
as course
material.**

A practical guide

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***to LTE design,
test and
measurement,
this new edition
has been updated
to include the
latest
developments
This book
presents the
latest details on
LTE from a
practical and***

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Evolution In
**technical
perspective.**

**Written by
Agilent's
measurement
experts, it offers
a valuable insight
into LTE
technology and
its design and
test challenges.
Chapters cover
the upper layer**

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*Evolution In
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**signaling and
system
architecture
evolution (SAE).
Basic concepts
such as MIMO
and SC-FDMA,
the new uplink
modulation
scheme, are
introduced and
explained, and
the authors look**

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into the challenges of verifying the designs of the receivers, transmitters and protocols of LTE systems. The latest information on RF and signaling conformance testing is

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**delivered by
authors
participating in
the LTE 3GPP
standards
committees. This
second edition
has been
considerably
revised to reflect
the most recent
developments of
the technologies**

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*Evolution In
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**and standards.
Particularly
important
updates include
an increased
focus on LTE-
Advanced as well
as the latest
testing
specifications.
Fully updated to
include the latest
information on**

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LTE 3GPP

standards

**Chapters on
conformance
testing have
been majorly
revised and there
is an increased
focus on LTE-
Advanced
Includes new
sections on
testing**

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**challenges as
well as over the
air MIMO testing,
protocol testing
and the most up-
to-date test
capabilities of
instruments
Written from
both a technical
and practical
point of view by
leading experts**

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in the field
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**From GSM to LTE
Cyber and Digital
Forensic
Investigations
Radio Protocols
for LTE and LTE-
Advanced
Insights on
Connectivity and
Service
Long Term
Evolution**

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***LTE for 4G Mobile
Broadband
A New Air
Interface for Long
Term Evolution***

The aim of this book is to provide comprehensive coverage of current state of the art theoretical and technological aspects of broadband mobile and wireless networks focusing on Long Term

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Evolution Network. The presentation starts from basic principles, and proceeds to the most advanced topics.

Provided schemes are developed and oriented in the context of actual closed standards of the IEEE working groups and the 3 GPP LTE.

Also this book will focus on the understanding of the LTE technology as

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well as the study of its performance in terms of mobility, quality of service, security, resource allocation.

Written by experts actively involved in the 3GPP standards and product development, LTE for UMTS, Second Edition gives a complete and up-to-date overview of Long Term Evolution (LTE) in a systematic and

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Edition

clear manner. Building upon on the success of the first edition, LTE for UMTS, Second Edition has been revised to now contain improved coverage of the Release 8 LTE details, including field performance results, transport network, self optimized networks and also covering the enhancements done in 3GPP Release 9. This

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This new edition also provides an outlook to Release 10, including the overview of Release 10 LTE-

Advanced technology components which enable reaching data rates beyond 1 Gbps. Key updates for the second edition of LTE for UMTS are focused on the new topics from Release 9 & 10, and include: LTE-Advanced; Self

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optimized networks
(SON); Transport
network dimensioning;
Measurement results.

This very up-to-date and practical book, written by engineers working closely in 3GPP, gives insight into the newest technologies and standards adopted by 3GPP, with detailed explanations of the specific solutions chosen

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and their implementation
in HSPA and LTE. The
key technologies
presented include multi-
carrier transmission,
advanced single-carrier
transmission, advanced
receivers, OFDM,
MIMO and adaptive
antenna solutions,
advanced radio resource
management and
protocols, and different
radio network

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architectures. Their role and use in the context of mobile broadband access in general is explained.

Both a high-level overview and more detailed step-by-step explanations of HSPA and LTE implementation are given. An overview of other related systems such as TD SCDMA, CDMA2000, and WIMAX is also

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provided. This is a
'must-have' resource
for engineers and other
professionals working
with cellular or wireless
broadband technologies
who need to know how
to utilize the new
technology to stay ahead
of the competition. The
authors of the book all
work at Ericsson
Research and are deeply
involved in 3G

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development and standardisation since the early days of 3G research. They are leading experts in the field and are today still actively contributing to the standardisation of both HSPA and LTE within 3GPP. * Gives the first explanation of the radio access technologies and key international standards for moving to the next stage of 3G

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Bullet 2nd

edition * Describes the new technologies selected by the 3GPP to realise High Speed Packet Access (HSPA) and Long Term Evolution (LTE) for mobile broadband *

Gives both higher-level overviews and detailed explanations of HSPA and LTE as specified by

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Highly regarded as the book on the air interface of 3G cellular systems WCDMA for UMTS has again been fully revised and updated. The third edition now covers the key features of 3GPP Release 6 ensuring it remains the leading principal resource in this constantly progressing area. By providing a deep

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Evolution In
Evolution In

understanding of the
WCDMA air interface,
the practical approach of
this third edition will
continue to appeal to
operators, network and
terminal manufacturers,
service providers,
university students and
frequency regulators.
Explains the key parts of
the 3GPP/WCDMA
standard Presents
network dimensioning,

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Coverage and Capacity of
WCDMA Introduces

TDD and discusses its
differences from FDD

Key third edition updates
include: Covers the main

3GPP Release 6 updates

Further enhances High
Speed Downlink Packet
Access (HSDPA)

chapter with a number of
new simulation results

Explains High Speed
Uplink Packet Access

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(HSUPA) study item
Introduces the new
services including their
performance analysis :
Push-to-Talk over
Cellular (PoC),
streaming, See What I
See (SWIS) and
multiplayer games
Presents a number of new
WCDMA field
measurement results:
capacity, end-to-end
performance and

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handovers Includes
completely updated
antenna beamforming
and multiuser detection
sections featuring new
simulation results
Introduces TD-SCDMA
and compares it to
Release TDD

This book is a must-read
for all network planners
and other professionals
wishing to improve the
quality and cost

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efficiency of 3G and LTE networks In this book, the authors address the architecture of the 2/3G network and the Long Term Evolution (LTE) network. The book proposes analytical models that make the analysis and dimensioning of the most important interfaces, i.e. WCDMA or Iub, possible. Furthermore,

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the authors include descriptions of fundamental technological issues in 2/3 G networks, basic traffic engineering models and frequent examples of the application of analytical models in the analysis and dimensioning of the interface of cellular networks. The specific knowledge included in

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the content will enable
the reader to understand
and then to prepare

appropriate

programming softwares

that will allow them to

evaluate quality

parameters of cellular

networks, i.e. blocking

probabilities or call

losses. Additionally, the

book presents models for

the analysis and

dimensioning of the

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Evolution In
Wideband Code

Division Multiple Access
(WCDMA) radio

interface and the Iub
interface, both carrying a
mixture of Release 99
traffic (R99) and High-
Speed Packet Access
(HSPA) traffic streams.

Finally, the analytical
models presented in the
book can be also used in
the process of modeling
and optimization of LTE

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networks. Key Features:

Bullett and
Edition
Describes the
architecture and the
modes of operation of
the cellular 2/3/4G
systems and the LTE
network Covers the
traffic theory and
engineering within the
context of mobile
networks Presents
original analytical
methods that enable their
users to dimension

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Edition
selected interfaces of
cellular networks

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He has been awarded multiple patents on topics related to computers simulations. He holds a BSc degree in Electrical Engineering from McGill University and MSc and PhD

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Generation Partnership
Project, long term
evolution (LTE) is an
important new 4G
wireless broadband
technology that provides
significantly increased

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peak data rates, reduced
Bullets 2nd
latency, scalable

bandwidth capacity, and
Edition
backwards compatibility
with existing GSM and
UMTS technologies.

For these reasons, LTE
is now being utilized by
most major service
providers. This unique
and timely book
answers the demands of
engineers in the field,
offering expert guidance

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on how LTE works. The book serves as a self-training resource, helping you understand the complex air interface protocols related to LTE. You gain practical knowledge of layer 2 and layer 3 functions and get clear explanations of configuration parameters in NAS and

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Layer 3 messages.

Moreover, you find in-depth coverage of all relevant NAS and physical layer processes.

The book features over 115 illustrations that support key topics throughout.

Low power wide area network (LPWAN) is a promising solution for long range and low power Internet of

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Things (IoT) and machine to machine (M2M) communication applications. The LPWANs are resource-constrained networks and have critical requirements for long battery life, extended coverage, high scalability, and low device and deployment costs. There are several design and deployment

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challenges such as
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media access control,
spectrum management,

link optimization and
adaptability, energy
harvesting, duty cycle
restrictions, coexistence
and interference,
interoperability and
heterogeneity, security
and privacy, and others.

LPWAN Technologies
for IoT and M2M

Applications is intended

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to provide a one-stop solution for study of LPWAN technologies as it covers a broad range of topics and multidisciplinary aspects of LPWAN and IoT. Primarily, the book focuses on design requirements and constraints, channel access, spectrum management, coexistence and

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interference issues,
energy efficiency,
technology candidates,
use cases of different
applications in smart
city, healthcare, and
transportation systems,
security issues,
hardware/software
platforms, challenges,
and future directions.
One stop guide to the
technical details of
various low power long

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range technologies such
as LoRaWAN, Sigfox,
NB-IoT, LTE-M and
others Describes the
design aspects, network
architectures, security
issues and challenges
Discusses the
performance,
interference,
coexistence issues and
energy optimization
techniques Includes
LPWAN based

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intelligent applications
Bullets 2nd
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in diverse areas such as
smart city, traffic

management, health and
others Presents the
different hardware and
software platforms for
LPWANs Provides
guidance on selecting
the right technology for
an application

Understanding the latest
capabilities in the cyber
threat landscape as well

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as the cyber forensic
challenges and
approaches is the best
way users and
organizations can
prepare for potential
negative events.

Adopting an
experiential learning
approach, this book
describes how cyber
forensics researchers,
educators and
practitioners can keep

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pace with technological advances, and acquire the essential knowledge and skills, ranging from IoT forensics, malware analysis, and CCTV and cloud forensics to network forensics and financial investigations. Given the growing importance of incident response and cyber forensics in our digitalized society, this

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book will be of interest
and relevance to
researchers, educators
and practitioners in the
field, as well as students
wanting to learn about
cyber forensics.

5G New Radio in
Bullets

LTE, LTE-Advanced,
SAE, VoLTE and 4G
Mobile

Communications

Single Carrier FDMA

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Edition
High-Speed Wireless
Communications

An Introduction to LTE
LTE and the Evolution
to 4G Wireless
A Law Enforcement
Practitioner's
Perspective

*"Where this book
is exceptional is
that the reader will
not just learn how
LTE works but why*

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it works" Adrian

Bullets 2nd

Scrase, ETSI Vice-

Edition

President,

International

Partnership

Projects Following

on the success of

the first edition,

this book is fully

updated, covering

the latest additions

to LTE and the key

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*features of LTE-
Advanced. This
book builds on the
success of its
predecessor,
offering the same
comprehensive
system-level
understanding built
on explanations of
the underlying
theory, now*

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expanded to include complete coverage of Release 9 and the developing specifications for LTE-Advanced. The book is a collaborative effort of more than 40 key experts representing over

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*20 companies
actively
participating in the
development of
LTE, as well as
academia. The
book highlights
practical
implications,
illustrates the
expected
performance, and*

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Evolution In

draws

*comparisons with
the well-known*

WCDMA/HSPA

standards. The

authors not only

pay special

attention to the

physical layer,

giving an insight

into the

fundamental

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*concepts of
OFDMA-FDMA*

and MIMO, but

also cover the

higher protocol

layers and system

architecture to

enable the reader

to gain an overall

understanding of

the system. Key

New Features:

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Comprehensively updated with the latest changes of the LTE Release 8 specifications, including improved coverage of Radio Resource Management RF aspects and performance requirements

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Provides detailed coverage of the new LTE Release 9 features, including: eMBMS, dual-layer beamforming, user equipment positioning, home eNodeBs / femtocells and pico cells and self-

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*optimizing
networks*
Bullets, 2nd
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*Evaluates the LTE
system*

performance

Introduces LTE-

Advanced,

explaining its

context and

motivation, as well

as the key new

features including:

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carrier

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aggregation,

relaying, high-

order MIMO, and

Cooperative Multi-

Point transmission

(CoMP). Includes

an accompanying

website containing

a complete list of

acronyms related

to LTE and LTE-

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Advanced, with a brief description of each (http://www.wiley.com/go/sesia_theumts) This book is an invaluable reference for all research and development engineers involved in implementation of LTE or LTE-

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Advanced, as well as graduate and PhD students in wireless communications.

Network operators, service providers and R&D

managers will also find this book insightful.

Voice over LTE

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*(Long Term Evolution)
presents the mechanisms put in place in 4G mobile networks for the transportation of IP packets containing voice data and telephone signaling, as well as the technologies*

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*used to provide a
telephone service
in the IMS*

*(IP Multimedia Sub-
system) network.*

*Despite the
difficulty*

*connected to the
handover of the
4G network to the
2G/3G network, a
telephone*

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*communication will
not be established
on the 4G network.*

*This book
analyzes the
technologies that
have been put in
place, such as
CSFB (Circuit
Service Fall Back),
an interim solution
that enables a*

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*mobile connected
to the 4G network
to receive an alert
transmitted by the
2G/3G network.*

*The book also
goes on to develop
the SIP (Session I
nformation Protocol
) on which the
telephone
signaling*

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*transferred by the
4G network is
based, the IMS
network that
provides the
service and defines
the routing, the
SRVCC (Single
Radio Voice Call C
ontinuity) mechanis
m that maintains
communication*

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*Evolution In
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Edition*
and the TAS (Telephony Application Server) that

*supplies
supplementary
services. Contents
1. The EPS
Network. 2. The
LTE Interface. 3.
The CSFB
Function. 4. SIP
and SDP*

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*Protocols. 5. The
IMS Network. 6.
Telephone*

*Services. 7. The
SRVCC Function.*

About the Authors

*André Perez is a
consultant and
teacher in
networks andtelec
ommunications.*

He works with

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*industrialists and
operators regarding
architecture*

*studies and leads
training on the 4G
and IMS networks
for NEXCOM.*

*This book traces
regional income
inequality in Spain
during the
transition from a*

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*pre-industrial
society to a
modern economy,
using the Spanish
case to shed
further light on the
challenges that
emerging
economies are
facing today.
Regional inequality
is currently one of*

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*the most pressing
problems in the
European Union,
and this text
presents a novel
dataset covering
150 years to
analyse long-run
trends in regional
per capita GDP.
Spatial clustering
and a new*

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economic
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geography
Edition

*approach also
contribute to the
historical analysis
provided, which
points to the role
played by spatial
externalities and
their growing
relevance over
time. To identify*

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*the presence of
spatial
dependence is
crucial, not only for
getting a better
understanding of
distribution
dynamics, but also
for economic
policy purposes.
What are the
potential causes*

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*behind the
disparities in
regional per capita
income and
productivity? The
authors answer
this by comparing
results with
evidence available
for other countries,
chiefly France,
Italy and Portugal,*

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*Evolution In
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*but is of global
relevance.*

*Since the
enactment of the
Airline
Deregulation Act in
1978, questions
that had been at
the heart of the
ongoing debate
about the industry
for eighty years*

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*gained a new
intensity: Is there
enough*

*competition among
airlines to ensure
that passengers
do not pay
excessive fares?*

*Can an
unregulated airline
industry be
profitable? Is air*

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*travel safe? While
economic
regulation*

*provided a certain
stability for both
passengers and
the industry,
deregulation
changed*

*everything. A new
fare structure
emerged; travelers*

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faced a variety of fares and travel restrictions; and the offerings changed frequently. In the last fifteen years, the airline industry's earnings have fluctuated wildly. New carriers entered

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the industry, but several declared bankruptcy, and Eastern, Pan Am, and Midway were liquidated. As financial pressures mounted, fears have arisen that air safety is being compromised by carriers who cut

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*costs by skimping
on maintenance
and hiring
inexperienced
pilots.*

*Deregulation itself
became an issue
with many critics
calling for a return
to some form of
regulation. In this
book, Steven A.*

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Morrison and Clifford Winston assert that all too often public discussion of the issues of airline competition, profitability, and safety take place without a firm understanding of the facts. The

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Evolution In

policy

*recommendations
that emerge*

*frequently ignore
the long-run*

*evolution of the
industry and its*

*capacity to solve
its own problems.*

*This book provides
a comprehensive
profile of the*

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industry as it has evolved, both before and since deregulation. The authors identify the problems the industry faces, assess their severity and their underlying causes, and indicate whether

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*government policy
can play an
effective role in
improving
performance. They
also develop a
basis for
understanding the
industry's evolution
and how the
industry will
eventually adapt to*

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*the unregulated
economic
environment.*

*Morrison and
Winston maintain
that although the
airline industry has
not reached long-
run equilibrium, its
evolution is
proceeding in a
positive*

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direction—one that will preserve and possibly enhance the benefits of deregulation to travelers and carriers. They conclude that the federal government's primary policy objective should

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*be to expand the
benefits from
unregulated*

*market forces to
international travel.*

*Brookings Review
article also
available*

*Analysing and
designing reliable
and fast wireless
networks requires*

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*an understanding
of the theory
underpinning
these systems and
the engineering
complexities of
their
implementation.*

*This text describes
the underlying
principles and
major applications*

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of high-speed wireless technologies, with emphasis on ultra-wideband (UWB) wireless systems, 3G long term evolution, and 4G mobile networks. Key topics such as cross-layer optimization are

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discussed in detail and various forms of UWB, including multi-band OFDM UWB, are covered. Recent research developments are described before identifying the scope and direction for future research. The

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overlay problem (interference problem) in UWB is discussed, and the author aims to illustrate that OFDM is not the best wireless access technique for high speed transmission.

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*technologies in the
area, this book will
be a valuable
resource for
graduate students
of electrical and
computer
engineering as
well as
practitioners in the
wireless
communications*

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industry.

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*Design and
Measurement*

Challenges

From GSM to LTE-

Advanced Pro and

5G

Fundamentals of

LTE

Long Term

Evolution in Bullets

Page 245/286

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*Modeling and
Dimensioning of
Mobile Wireless
Networks*

*LTE Optimization
and Mobile
Network
Virtualization*

*All over the world
countries struggle with
water stress. Problems
vary from water scarcity*

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*and a degrading water
quality, to floods and a
rising sea level due to*

*climate change. The
European Union adopted
a Water Framework
Directive to improve the
sustainability of water
management in its
member states. Water
management should be
coordinated at the level
of river basins as a
whole. Interests of*

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various user groups

should be better

represented. River basin

visions should take into

account the impact of all

human activities on the

status of the resource.

Water legislation needs

streamlining and more

focus on its

implementation. The

European Union

advocates regulating

water prices by charging

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*the costs of water
services on the basis of
full cost recovery and the
polluter pays principle.*

*This book examines the
development of water
management in the
Netherlands, Belgium,
France, Spain, Italy and
Switzerland. It is based
on the European research
project EUWARENESS.*

*The authors apply a
theoretical framework*

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*institutional regimes,
water governance and
property rights. The
evolution of national
water resource regimes is
described over a period
of almost 200 years
(1800-2000). The long-
term perspective enables
the reader to see the
conditions under which
regime transformation
and paradigm change*

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*are made possible. The
book also includes a
critical analysis of policy
making by the European
Union, and a
comparative review and
analysis of regime
development in the six
countries involved. This
book is followed by
another volume
published with Kluwer
Academic Publishers on
"Integrated Governance*

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and Water Basin

Management", edited by
Hans Bressers and
Stefan Kuks.

This is the Black and
White version of '5G
New Radio in Bullets',
printed as a paperback
with 590 pages and
dimensions of 21.6 x
27.9 cm. This book
provides a
comprehensive
description of the 5G

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New Radio (NR) radio access network. The content is aimed towards anyone wishing to learn the basics, or to develop a more thorough understanding. The content is presented in the form of bullet points to keep it concise and to allow rapid access to the key information. The text includes both introductory and

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Edition*

advanced topics and is supported by more than 480 illustrations and 350 tables. The book is based upon the release 15 version of the specifications. Practical Radio Network Planning topics are discussed after presenting the theoretical background. The content is organised as:

*Fundamentals; Air
Interface; Downlink*

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*Signals and Channels;
Downlink Transmission
Schemes; Flow of
Downlink Data; System
Information; Uplink
Signals and Channels;
Uplink Transmission
Schemes; Beam
Management; UE
Measurements; Idle
Mode Procedures;
Physical and MAC Layer
Procedures; Voice
Services; Signalling*

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*Procedures; Radio
Network Planning;
Dynamic Spectrum
Sharing.*

*Following on from the
successful first edition
(March 2012), this book
gives a clear explanation
of what LTE does and
how it works. The
content is expressed at a
systems level, offering
readers the opportunity to
grasp the key factors that*

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*make LTE the hot topic
amongst vendors and
operators across the*

*globe. The book assumes
no more than a basic
knowledge of mobile
telecommunication*

*systems, and the reader is
not expected to have any
previous knowledge of
the complex*

*mathematical operations
that underpin LTE. This
second edition introduces*

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Edition*
*new material for the
current state of the
industry, such as the new
features of LTE in
Releases 11 and 12,
notably coordinated
multipoint transmission
and proximity services;
the main short- and long-
term solutions for LTE
voice calls, namely
circuit switched fallback
and the IP multimedia
subsystem; and the*

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*evolution and current
state of the LTE market.*

*It also extends some of
the material from the
first edition, such as inter-
operation with other
technologies such as
GSM, UMTS, wireless
local area networks and
cdma2000; additional
features of LTE*

*Advanced, notably
heterogeneous networks
and traffic offloading;*

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data transport in the evolved packet core; coverage and capacity estimation for LTE; and a more rigorous treatment of modulation, demodulation and OFDMA. The author breaks down the system into logical blocks, by initially introducing the architecture of LTE, explaining the techniques used for radio

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transmission and

Bullets 2nd
Edition
*reception and the overall
operation of the system,*

and concluding with

more specialized topics

such as LTE voice calls

and the later releases of

the specifications. This

methodical approach

enables readers to move

on to tackle the

specifications and the

more advanced texts with

confidence.

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*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

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*Radio is a comprehensive
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

Bullets 2nd
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.

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*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

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*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 measurements*

*Written for students and
scientists interested in 5G
technology, 5G*

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*Technology: 3GPP New
Radio provides a clear
understanding of the*

*underlying 5G
technology that promotes
the opportunity to take
full benefit of new
capabilities.*

*From the editors of the
highly successful
WCDMA for UMTS, this
new book gives a
complete and up-to-date
overview of Long Term*

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Evolution (LTE) in a systematic and clear manner. It starts with an in-depth explanation of the background and standardization process before moving on to examine the system architecture evolution (SAE). The basics of air interface modulation choices are introduced and key subjects such as 3GPP LTE physical

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*layer and protocol
solutions are described.*

*Mobility aspects and
radio resource
management together
with radio and end-to-
end performance are
assessed. The voice
solution and voice
capacity in LTE are also
illustrated. Finally, the
main differences
between LTE TDD and
FDD modes are*

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*examined and HSPA
evolution in 3GPP*

*Releases 7 and 8 is
described. LTE for
UMTS is one of the first
books to provide a
comprehensive guide to
the standards and
technologies of LTE. Key
features of the book
include: Covers all the
key aspects of LTE in a
systematic manner
Presents full description*

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*of 3GPP Release 8 LTE
Examines the expected
performance of LTE*

*Written by experts
actively involved in the
3GPP standards and
product development.*

*LPWAN Technologies
for IoT and M2M*

*Applications
OFDMA and SC-FDMA
Based Radio Access
Towards a New*

Research Agenda for

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Evolution to LTE-
Advanced*

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Modeling to Simulation
and Prototyping
LTE - The UMTS Long
Term Evolution
From Theory to Practice*
Summarizes and
surveys current
LTE technical
specifications and

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implementation
options for

engineers and
newly qualified
support staff

Concentrating on
three mobile
communication
technologies, GSM,
3G-WCDMA, and
LTE—while majorly
focusing on Radio
Access Network

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(RAN) technology—this book describes principles of mobile radio technologies that are used in mobile phones and service providers' infrastructure supporting their operation. It introduces some basic concepts of

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mobile network engineering used in design and rollout of the mobile network. It then follows up with principles, design constraints, and more advanced insights into radio interface protocol stack, operation, and dimensioning

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for three major
mobile network
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technologies:

Global System

Mobile (GSM) and

third (3G) and

fourth generation

(4G) mobile

technologies. The

concluding sections

of the book are

concerned with

further

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developments
toward next
generation of
mobile network
(5G). Those include
some of the major
features of 5G such
as a New Radio,
NG-RAN
distributed
architecture, and
network slicing.
The last section

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describes some key concepts that may bring significant enhancements in future technology and services experienced by customers.

Introduction to
Mobile Network
Engineering: GSM,
3G-WCDMA, LTE
and the Road to 5G

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