

IPR2022-00464



LTE – The UMTS Long Term Evolution

From Theory to Practice

Second Edition

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This edition first published 2011 © 2011 John Wiley & Sons Ltd.

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Library of Congress Cataloging-in-Publication Data

Sesia, Stefania.

LTE-the UMTS long term evolution : from theory to practice/ Stefania Sesia, Issam Toufik, Matthew Baker.—2nd ed.

p. cm.

Includes bibliographical references and index.

ISBN 978-0-470-66025-6 (hardback)

- 1. Universal Mobile Telecommunications System. 2. Long-Term Evolution (Telecommunications)
- I. Toufik, Issam. II. Baker, Matthew (Matthew P.J.) III. Title.

TK5103.4883.S47 2011

621.3845'6-dc22

2010039466

A catalogue record for this book is available from the British Library.

Print ISBN: 9780470660256 (H/B) ePDF ISBN: 9780470978511 oBook ISBN: 9780470978504 epub ISBN: 9780470978641

Printed in Great Britain by CPI Antony Rowe, Chippenham, Wiltshire.



List of Acronyms

* An asterisk indicates that the acronym can have different meanings depending on the context. The meaning is clearly indicated in the text when used.

3GPP 3rd Generation Partnership Project

3GPP2 3rd Generation Partnership Project 2

ABS Almost Blank Subframe

AC Access Class

ACI Adjacent Channel Interference

ACIR Adjacent Channel Interference Ratio

ACK Acknowledgement

ACLR Adjacent Channel Leakage Ratio

ACS Adjacent Channel Selectivity

ADC Analogue to Digital Converter

ADSL Asymmetric Digital Subscriber Line

AGI Antenna Gain Imbalance

A-GNSS Assisted Global Navigation Satellite System

AM Acknowledged Mode

AMC Adaptive Modulation and Coding

AMPS Analogue Mobile Phone System

AMR Adaptive MultiRate

ANR Automatic Neighbour Relation

ANRF Automatic Neighbour Relation Function

AoA Angle-of-Arrival

AoD Angle-of-Departure

APN Access Point Name

APP A-Posteriori Probability

ARFCN Absolute Radio Frequency Channel Number ARIB Association of Radio Industries and Businesses

ARP Almost Regular Permutation*

ARP Allocation and Retention Priority*

ARQ Automatic Repeat reQuest

AS Access Stratum*

AS Angular Spread*

A-SEM Additional SEM

ATDMA Advanced TDMA

ATIS Alliance for Telecommunications Industry Solutions

AuC Authentication Centre

AWGN Additive White Gaussian Noise

BCC Base station Colour Code

BCH Broadcast CHannel

BCCH Broadcast Control CHannel

BCJR Algorithm named after its inventors, Bahl, Cocke, Jelinek and Raviv

BER Bit Error Rate

BLER BLock Error Rate

BM-SC Broadcast-Multicast Service Centre

BP Belief Propagation

BPRE Bits Per Resource Element

bps bits per second

BPSK Binary Phase Shift Keying

BSIC Base Station Identification Code

BSR Buffer Status Reports

CAPEX CAPital EXpenditure

CAZAC Constant Amplitude Zero

AutoCorrelation



xxxiv

CB Circular Buffer

CBF Coordinated Beamforming

CC Component Carrier

CCCH Common Control CHannel

CCE Control Channel Element

CCI Co-Channel Interference

CCO Cell Change Order

CCSA China Communications Standards
Association

CDD Cyclic Delay Diversity

CDF Cumulative Distribution Function

CDL Clustered Delay Line

CDM Code Division Multiplex(ed/ing)

CDMA Code Division Multiple Access

C/I Carrier-to-Interference ratio

CID Cell ID

CIF Carrier Indicator Field

CF Contention-Free

CFI Control Format Indicator

CFO Carrier Frequency Offset

CINR Carrier-to-Interference-and-Noise Ratio

CIR Channel Impulse Response

CM Cubic Metric

CMAS Commercial Mobile Alert Service

CMHH Constant Modulus HouseHolder

CN Core Network

CoMP Coordinated MultiPoint

CODIT UMTS Code Division Testbed

COFDM Coded OFDM

CP Cyclic Prefix

CPICH Common PIlot CHannel

CPR Common Phase Rotation

CPT Control PDU Type

CQI Channel Quality Indicator

CRC Cyclic Redundancy Check

CRE Cell Range Expansion

C-RNTI Cell Radio Network Temporary Identifier

LIST OF ACRONYMS

CRS Common Reference Signal

CS Circuit-Switched*

CS Cyclic Shift*

CSA Common Subframe Allocation

CSG Closed Subscriber Group

CSI Channel State Information

CSI-RS Channel State Information RS

CSIT Channel State Information at the Transmitter

CTF Channel Transfer Function

CVA Circular Viterbi Algorithm

CVQ Channel Vector Quantization

CW Continuous-Wave

DAB Digital Audio Broadcasting

DAC Digital to Analogue Converter

DAI Downlink Assignment Index

dB deci-Bel

d.c. direct current

DCCH Dedicated Control CHannel

DCFB Direct Channel FeedBack

DCI Downlink Control Information

DFT Discrete Fourier Transform

DFT-S-OFDM DFT-Spread OFDM

Diffserv Differentiated Services

DL DownLink

DL-SCH DownLink Shared CHannel

DMB Digital Mobile Broadcasting

DM-RS DeModulation-RS

DOA Direction Of Arrival

DPC Dirty-Paper Coding

DRB Data Radio Bearer

DRX Discontinuous Reception

DS-CDMA Direct-Sequence Code Division Multiple Access

DSP Digital Signal Processor

DTCH Dedicated Traffic CHannel

DTX Discontinuous Transmission

DVB-H Digital Video Broadcasting - Handheld

DVB-T Digital Video Broadcasting - Terrestrial

DwPTS Downlink Pilot TimeSlot

ECGI E-UTRAN Cell Global Identifier



DOCKET

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