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Nota di contenuto	About the Authors xvii -- Preface xix -- Acknowledgments xxi -- 1 LTE and LTE-A Overview 1 -- 1.1 Introduction 1 -- 1.2 Link Spectrum Eﬃciency 3 -- 1.3 LTE-Advanced and Beyond 4 -- 1.4 Evolved Packet System (EPS) Overview 9 -- 1.5 Network Architecture Evolution 11 -- 1.6 LTE UE Description 14 -- 1.7 EPS Bearer Procedures 15 -- 1.8 Access and Non-access Stratum Procedures 20 -- 1.9 LTE Air Interface 26 -- 1.10 OFDM Signal Generation 32 -- 1.11 LTE Channels and Procedures 34 -- 1.12 Uplink Physical Channels 43 -- 1.13 Physical Layer Procedures 45 -- 1.14 RRC Layer and Mobility Procedures 51 -- 1.15 LTE Idle Mode Mobility Procedures 60 -- 1.16 LTE Connected Mode Mobility Procedures 68 -- 1.17 Interworking with Other 3GPP Radio Access 76 -- References 86 -- 2 Introduction to the IP Multimedia Subsystem (IMS) 87 -- 2.1 Introduction 87 -- 2.2 IMS Network Description 91 -- 2.3 IMS Identities and Subscription 131 -- 2.4 IMS Architecture and Interfaces 134 -- 2.5 MMTel (Multimedia Telephony) Services 136 -- 2.6 Service Centralization and Continuity AS (SCC AS) 141 -- 2.7 Operator X IMS-VoLTE Architecture 145 -- 3 VoLTE/CSFB Call Setup Delay and Handover Analysis 158 -- 3.1

Overview 158 -- 3.2 Introduction 158 -- 3.3 CSFB Call Flow and Relevant KPIs 160 -- 3.4 VoLTE Call Flow and Relevant KPIs 162 -- 3.5 VoLTE Handover and Data Interruption Time 166 -- 3.6 Single Radio Voice Call Continuity (SRVCC) 169 -- 3.7 Performance Analysis 171 -- 3.8 Latency Reduction During Handover 182 -- 3.9 Practical Use Cases and Recommendations 187 -- 3.10 Conclusions 190 -- References 195 -- 4 Comprehensive Performance Evaluation of VoLTE 197 -- 4.1 Overview 197 -- 4.2 Introduction 197 -- 4.3 VoLTE Principles 198 -- 4.4 Main VoLTE Features 200 -- 4.5 Testing Environment and Main VoLTE KPIs 203 -- 4.6 VoLTE Performance Evaluation 204 -- 4.7 EVS Coding and Voice Evolution 214 -- 4.8 TTI Bundling Performance Evaluation 219 -- 4.9 BLER Impact on Voice Quality 220 -- 4.10 Scheduler Performance 220. 4.11 VoLTE KPI Evaluation 221 -- 4.12 Use Cases and Recommendations 223 -- 4.13 Conclusions 226 -- References 228 -- 5 Evaluation of LTE-Advanced Features 230 -- 5.1 Introduction to LTE-Advanced Features 230 -- 5.2 Carrier Aggregation in LTE-A and LTE-A Pro 231 -- 5.3 Higher-order Modulation (HOM) for Uplink and Downlink 242 -- 5.4 LTE-A Feature Dependencies 247 -- 5.5 Other Enhancements Towards Advanced LTE Deployments 252 -- References 263 -- 6 LTE Network Capacity Analysis 264 -- 6.1 Overview 264 -- 6.2 Introduction 264 -- 6.3 Users and Traffic Utilization 266 -- 6.4 Downlink Analysis 270 -- 6.5 DL KPI Analysis 274 -- 6.6 UL KPI Analysis 289 -- 6.7 Data Connection Performance 302 -- 6.8 Link Reliability Analysis 305 -- 6.9 Main KPI Comparison for Different Operators 307 -- References 309 -- 7 IoT Evolution Towards a Super-connected World 310 -- 7.1 Overview 310 -- 7.2 Introduction to the IoT 310 -- 7.3 IoT Standards 312 -- 7.4 IoT Platform 314 -- 7.5 IoT Gateways, Devices, and "Things" Management 318 -- 7.6 Edge and Fog Computing 319 -- 7.7 IoT Sensors 322 -- 7.8 IoT Protocols 323 -- 7.9 IoT Networks 327 -- 7.10 3GPP Standards for IoT 337 -- 7.11 3GPP NB-IoT 341 -- 7.12 NB-IoT DL Specifications 343 -- 7.13 NB-IoT UL Specifications 352 -- 7.14 Release 13 Machine-type Communications Overview 358 -- 7.15 Link Budget Analysis 359 -- 7.16 NB-IoT Network Topology 364 -- 7.17 Architecture Enhancement for CIoT 367 -- 7.18 Sample IoT Use Cases 374 -- References 380 -- 8 5G Evolution Towards a Super-connected World 382 -- 8.1 Overview 382 -- 8.2 Introduction 382 -- 8.3 5G New Radio (NR) and Air Interface 385 -- 8.4 What is Next for LTE-A Pro Evolution? 386 -- 8.5 5G Spectrum View 387 -- 8.6 5G Design Considerations 390 -- 8.7 5G Deployment Scenarios for Mobile Applications 400 -- 8.8 Air-to-Ground and Satellite Scenarios 401 -- 8.9 5G Evaluation KPIs 405 -- 8.10 Next-generation Radio Access Requirements 407 -- 8.11 5G NextGen Core Network Architecture 416. 8.12 5G Waveform and Multiple Access Design 423 -- 8.13 NFV and SDN 433 -- 8.14 Conclusion 440 -- References 441 -- Index 445.

Sommario/riassunto

ESSENTIAL REFERENCE PROVIDING BEST PRACTICE OF LTE-A, VOLTE AND IOT DESIGN/DEPLOYMENT/PERFORMANCE AND EVOLUTION TOWARDS 5G This book is a practical guide to the design, deployment, and performance of LTE-A, VoLTE/IMS and IoT. A comprehensive practical performance analysis for VoLTE is conducted based on field measurement results from live LTE networks. Also, it provides a comprehensive introduction to IoT and 5G evolutions. Practical aspects and best practice of LTE-A/IMS/VoLTE/IoT, plus LTE-Advanced features, are presented. In addition, LTE/LTE-A network capacity dimensioning and analysis are demonstrated based on live LTE/LTE-A networks KPIs. A comprehensive foundation for 5G technologies is provided including massive MIMO, eMBB, URLLC, mMTC, NGCN and

network slicing, cloudification, virtualization and SDN. Practical Guide to LTE-A, VoLTE and IoT: Paving the Way Towards 5G can be used as a practical comprehensive guide for best practices in LTE/LTE-A/VoLTE/IoT design, deployment, performance analysis and network architecture and dimensioning. It offers tutorial introduction on LTE-A/IoT/5G networks, enabling the reader to use this advanced book without the need to refer to more introductory texts. . Offers a complete overview of LTE and LTE-A, IMS, VoLTE, IoT and 5G. Introduces readers to IP Multimedia Subsystems "IMS". Performs a comprehensive evaluation of VoLTE/CSFB. Provides LTE/LTE-A network capacity and dimensioning. Examines IoT and 5G evolutions towards a super connected world. Introduces 3GPP NB-IoT evolution for low power wide area "LPWA" network. Provides a comprehensive introduction for 5G evolution including eMBB, URLLC, mMTC, network slicing, cloudification, virtualization, SDN and orchestration Practical Guide to LTE-A, VoLTE and IoT will appeal to all deployment and service engineers, network designers, and planning and optimization engineers working in mobile communications. Also, it is a practical guide for R&D and standardization experts to evolve the LTE/LTE-A, VoLTE and IoT towards 5G evolution.
