Table of contents provided by Syndetics

- **Preface** (p. xi)
- Editor (p. xv)
- Contributors (p. xvii)
- Section I 5G Fundamentals
- 1 Basks of 5G (p. 3)
- 2 5G Overview: Key Technologies (p. 19)
- **3 From 4G to 5G** (p. 33)
- 4 Communication Haul Design for 5G Radio: Challenges and Open Issues (p. 57)
- Section II 5G Design
- 5 Planning Guidelines and Principles for 5G RAN (p. 71)
- 6 Quality of Service in 5G Network (p. 97)
- **7 Massive MIMO for 5G** (p. 113)
- 8 Self-Healing in 5G HetNets (p. 149)
- 9 Convergence of Optical and Wireless Technologies for 5G (p. 179)
- 10 Power Control in Heterogeneous Networks Using Modulation and Coding Classification (p. 217)
- 11 On the Energy Efficiency-Spectral Efficiency Trade-Off in 5G Cellular Networks (p. 251)
- Section III 5G Physical Layer
- 12 Physical Layer Technologies in 5G (p. 285)
- 13 GFDM: Providing Flexibility for the 5G Physical Layer (p. 325)
- 14 A Novel Centimeter-Wave Concept for 5G Small Cells (p. 391)
- Section IV CM and MM Wave for 5G
- 15 Millimeter-Wave Communications for 5G Wireless Networks (p. 425)
- 16 Network Architecture, Model, and Performance Based on Millimeter-Wave Communications (p. 441)
- 17 Millimeter-Wave (mmWave) Radio Propagation Characteristics (p. 461)
- 18 mmWave Communication Characteristics in an Outdoor Environment (p. 481)
- 19 Millimeter-Wave (mmWave) Medium Access Control: A Survey (p. 509)
- 20 Millimeter-Wave MAC Layer Design (p. 523)
- Index (p. 539)