



LTE for 4G Mobile Broadband: Air Interface Technologies and Performance

Farooq Khan

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Do you need to get up to speed quickly on LTE?

Understand the new technologies of the LTE standard and how they contribute to improvements in system performance with this practical and valuable guide, written by an expert on LTE who was intimately involved in drafting the standard. In addition to a strong grounding in the technical details, you'll also get fascinating insights into why particular technologies were chosen in the development process.

Core topics covered include:

- Network architecture and protocols
- OFDMA downlink access
- Low-PAPR SC-FDMA uplink access
- Transmit diversity and MIMO spatial multiplexing
- Channel structure and bandwidths
- Cell search, reference signals and random access
- Turbo coding with contention-free interleaver
- Scheduling, link adaptation, hybrid ARQ and power control
- Uplink and downlink physical control signaling
- Inter-cell interference mitigation techniques
- Single-frequency network (SFN) broadcast
- MIMO spatial channel model
- Evaluation methodology and system performance

With extensive references, a useful discussion of technologies that were not included in the standard, and end-of-chapter summaries that emphasize all the key points, this book is an essential resource for practitioners in the mobile cellular communications industry and for graduate students studying advanced wireless communications.

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