



# LTE-Advanced Air Interface Technology

*Xincheng Zhang, Xiaojin Zhou*

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**LTE-Advanced Air Interface Technology** Xincheng Zhang, Xiaojin Zhou

Opportunities are at hand for professionals eager to learn and apply the latest theories and practices in air interface technologies. Written by experienced researchers and professionals, **LTE-Advanced Air Interface Technology** thoroughly covers the performance targets and technology components studied by 3GPP for LTE-Advanced. Besides being an explanatory text about LTE-Advanced air interface technology, this book exploits the technical details in the 3GPP specification, and explains the motivation and implication behind the specifications.

After a general description of wireless cellular technology evolution and the performance targets and major technical features of LTE-Advanced, **LTE-Advanced Air Interface Technology** discusses various innovative technical features in detail, including

- Innovative concepts in carrier aggregation techniques
- Collaborative multipoint (CoMP) theory and performance analysis
- Enhanced multiantenna solutions or multiple-input, multiple-output (MIMO) technology, in particular, multiuser and multilayer MIMO
- Relaying issues
- Self-organizing and heterogeneous networks
- Interference suppression and enhanced intercell interference coordination (eICIC) technology

This book opens the door of LTE-A technology for practitioners in any stage of wireless communications. Beginning with basic communication principles, the book demonstrates how a complete wireless theory is built. Readers can work independently on original case studies and simulation programming examples, with an emphasis on technology and performance. Designed for professionals interested in gaining an upper hand, this book is the ideal educational and informative resource in the emerging field of air interface technology.

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