



## Essentials of LTE and LTE-A (The Cambridge Wireless Essentials Series)

*By Amitabha Ghosh, Rapeepat Ratasuk*

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- Covers the evolution of digital wireless technology, basics of LTE and LTE-A, design of downlink and uplink channels, multi-antenna techniques and heterogeneous networks
- Analyzes performance benefits over competing technologies, including WiMAX and 802.16m
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- Includes numerous examples, including extensive system and link results
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### **Editorial Review**

#### **About the Author**

Amitava Ghosh is a Fellow of the Technical Staff at Motorola, Inc., where he works in the area of current and future air-interface technologies for 802.16m, 3GPP LTE, LTE-Advanced, and other broadband technologies. Since joining Motorola, he has worked on eight different wireless technologies and is currently leading Motorola's efforts in defining 3GPP LTE and LTE-Advanced physical layer standards from the concept phase to the adopted baseline.

Rapeepat Ratasuk is currently a Distinguished Member of the Technical Staff at Motorola, Inc. He has extensive experience in 3G/4G cellular system design and analysis (specifically LTE, HSPA, WiMAX, 1xEV-DV, and W-CDMA technologies), including algorithm development, performance analysis and validation, physical layer modelling and simulations.

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