



# Understanding LTE and its Performance

By Tara Ali-Yahiya

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The aim of this book is to provide comprehensive coverage of current state of the art theoretical and technological aspects of broadband mobile and wireless networks focusing on Long Term Evolution Network. The presentation starts from basic principles, and proceeds to the most advanced topics. Provided schemes are developed and oriented in the context of actual closed standards of the IEEE working groups and the 3 GPPP LTE. Also this book will focus on the understanding of the LTE technology as well as the study of its performance in terms of mobility, quality of service, security, resource allocation.

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## **Understanding LTE and its Performance** By Tara Ali-Yahiya Bibliography

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## **Editorial Review**

From the Back Cover

Mobile communications technology is developing so rapidly that it seems a new breakthrough makes the headlines each week. Aimed at a wide audience, this book guides the reader through the complexities of Long Term Evolution (LTE) networks. Advanced LTEs are set to play a central role in the rapid take-up of fourth-generation mobile services able to deliver download speeds of hundreds of megabits a second. Beginning with the basic principles of LTE networks, the text builds to in-depth coverage of more complex topics, including a detailed assessment of LTE release 8, which forms the baseline specification of LTE 3GPP, the set of standards laid down by the Third Generation Partnership Project.

The wealth of subjects discussed includes the network architecture and programming required to ensure 4G LTE compatibility with 2- and 3G systems such as WiMAX, and the ways in which cell interference can be minimized. With faster, multilayered 4G networks set to spread to the remotest areas, this vital resource will be required reading for anyone needing to grasp the fundamentals of mobile communications.

## **Users Review**

**From reader reviews:**

**Michael Herndon:**

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**Terrie Newlin:**

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**Jillian Harrington:**

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