



# LTE-Advanced and Next Generation Wireless Networks: Channel Modelling and Propagation

By Guillaume de la Roche, Andrés Alayón-Glazunov, Ben Allen

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**LTE-Advanced and Next Generation Wireless Networks: Channel Modelling and Propagation** By Guillaume de la Roche, Andrés Alayón-Glazunov, Ben Allen

*LTE- A and Next Generation Wireless Networks: Channel Modeling and Performance* describes recent advances in propagation and channel modeling necessary for simulating next generation wireless systems. Due to the radio spectrum scarcity, two fundamental changes are anticipated compared to the current status. Firstly, the strict reservation of a specific band for a unique standard could evolve toward a priority policy allowing the co-existence of secondary users in a band allocated to a primary system. Secondly, a huge increase of the number of cells is expected by combining outdoor base stations with smaller cells such as pico/femto cells and relays. This evolution is accompanied with the emergence of cognitive radio that becomes a reality in terminals together with the development of self-organization capabilities and distributed cooperative behaviors.

The book is divided into three parts:

- Part I addresses the fundamentals (e.g. technologies, channel modeling principles etc.)
- Part II addresses propagation and modeling discussing topics such as indoor propagation, outdoor propagation, etc.
- Part III explores system performance and applications (e.g. MIMO Over-the-air testing, electromagnetic safety, etc).

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## **Editorial Review**

From the Back Cover

**This book discusses propagation and channel modeling for LTE Advanced and emerging wireless technologies**

*LTE- Advanced and Next Generation Wireless Networks: Channel Modeling and Propagation* describes recent advances in propagation and channel modeling necessary for designing, simulating and validating next generation wireless systems. The book is divided into three parts. Part I addresses the fundamentals (e.g. technologies, channel modeling principles etc.) Part II addresses propagation and modeling discussing topics such as indoor propagation, outdoor propagation, etc. Finally, Part III explores system performance and applications, including MIMO Over-the-air testing.

Key Features:

- Introduces LTE-Advanced and emerging wireless networks and concepts, as well as the major new techniques which impact the channel/propagation
- Discusses models for path loss predictions, pico/femto and relay channels, wideband channel models, channels for high mobility etc.
- Presents advances in channel measurements, and compares LTE field trials and measurement results with theoretical models
- Covers application and performance analysis
- Written by leading experts in academia and industry who have experience in propagation and channel modeling
- Includes an accompanying website containing additional material, links to references and advertisements for the book ([www.wiley.com/go/delaroche\\_next](http://www.wiley.com/go/delaroche_next))

This book is an excellent resource for academics and researchers working in telecommunications, and for wireless network designers, scientific (R&D) staff, and network engineers of mobile operators. Engineering students with wireless technology featuring in their work, product and solution architects, network planners, consultants on wireless communications consultants, femtocells hardware manufacturers will also find the book of interest.

About the Author

### **Dr. Guillaume de la Roche, University of Bedfordshire, UK**

Guillaume de la Roche received the Dipl.-Ing. in telecommunication from the School of Chemistry Physics and Electronics (CPE) Lyon, France, an M.S. degree in signal processing (2003) and a Ph.D. degree in wireless communication (2007) from the National Institute of Applied Sciences (INSA), Lyon, France.

### **Dr. Andres Alayon-Glazunov, KTH - Royal Institute of Technology, Sweden**

Andres Alayon-Glazunov obtained the M.Sc. (Engineer-Researcher) degree in Physical Engineering from Saint Petersburg's State Polytechnical University, Russia, and the Ph.D. degree in Electrical Engineering from Lund University, Sweden, during 1988-1994 and 2006-2009, respectively.

### **Prof. Ben Allen, University of Bedfordshire, UK**

Ben Allen received his PhD from the University of Bristol in 2001. In 2002 he joined Tait Electronics Ltd, Christchurch, New Zealand, before becoming a Research Fellow with the Centre for Telecommunications Research, King's College London.

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