



4G: LTE/LTE-Advanced for Mobile Broadband

By Erik Dahlman, Stefan Parkvall, Johan Skold

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LTE (Long Term Evolution) is the 3GPP's (3rd Generation Partnership Project) new standard and accompanying technologies that mobile network operators such as ATT, Verizon and TeliaSonera are adopting for their networks.

To move to higher-speed networks that can cater to customer demand for mobile broadband multimedia applications, the 3GPP has developed the latest LTE-Advanced (LTE Release 10) standard, which will be fixed in December 2010. This book focuses on LTE and LTE-Advanced, and provides engineers with real insight and understanding into the why and how of the standard and its related technologies. This book is written by engineers from Ericsson--the world's leading telecommunications supplier--who was heavily involved in the development of the standard.

- Follow-up to the very successful 3G Evolution, now focusing on LTE and LTE Advanced standard and its accompanying technologies
- Complete and clear explanation of LTE Advanced by the people who played a leading role in its development, which will enable engineers to quickly grasp the latest 3GPP Release 10 standard and implement it in their products
- Not a contributed book as most others on this topic are: this book gives an integrated introduction to the technologies and the standard

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Editorial Review

From the Back Cover

Based on the bestseller "3G Evolution HSPA and LTE for mobile broadband" and reflecting the ongoing success of LTE throughout the world, this book focuses on LTE with full updates including LTE-Advanced to provide a complete picture of the LTE system. Overview and detailed explanations are given for the latest LTE standards for radio interface architecture, the physical layer, access procedures, broadcast, relaying, spectrum and RF characteristics, and system performance. Key technologies presented include multi-carrier transmission, advanced single-carrier transmission, advanced receivers, OFDM, MIMO and adaptive antenna solutions, advanced radio resource management and protocols, and different radio network architectures. Their role and use in the context of mobile broadband access in general is explained. Both a high-level overview and more detailed step-by-step explanations of the LTE/LTE-Advanced implementation are given. An overview of other related systems such as GSM/EDGE, HSPA, CDMA2000, and WIMAX is also provided. This book is a must-have resource for engineers and other professionals in the telecommunications industry, working with cellular or wireless broadband technologies, giving an understanding of how to utilize the new technology in order to stay ahead of the competition. The authors of the book all work at Ericsson Research and have been deeply involved in 3G and 4G development and standardisation since the early days of 3G research. They are leading experts in the field and are today still actively contributing to the standardisation of LTE within 3GPP.

Users Review

From reader reviews:

Joshua Bush:

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Carolyn Franklin:

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