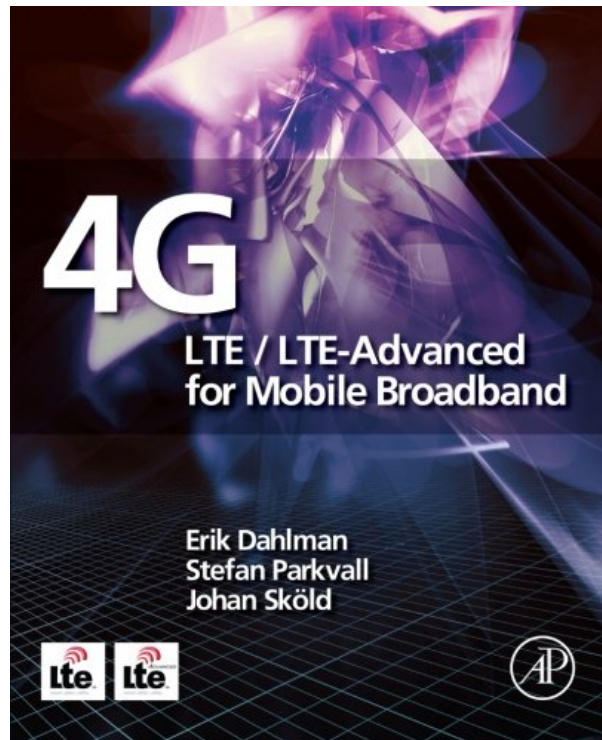
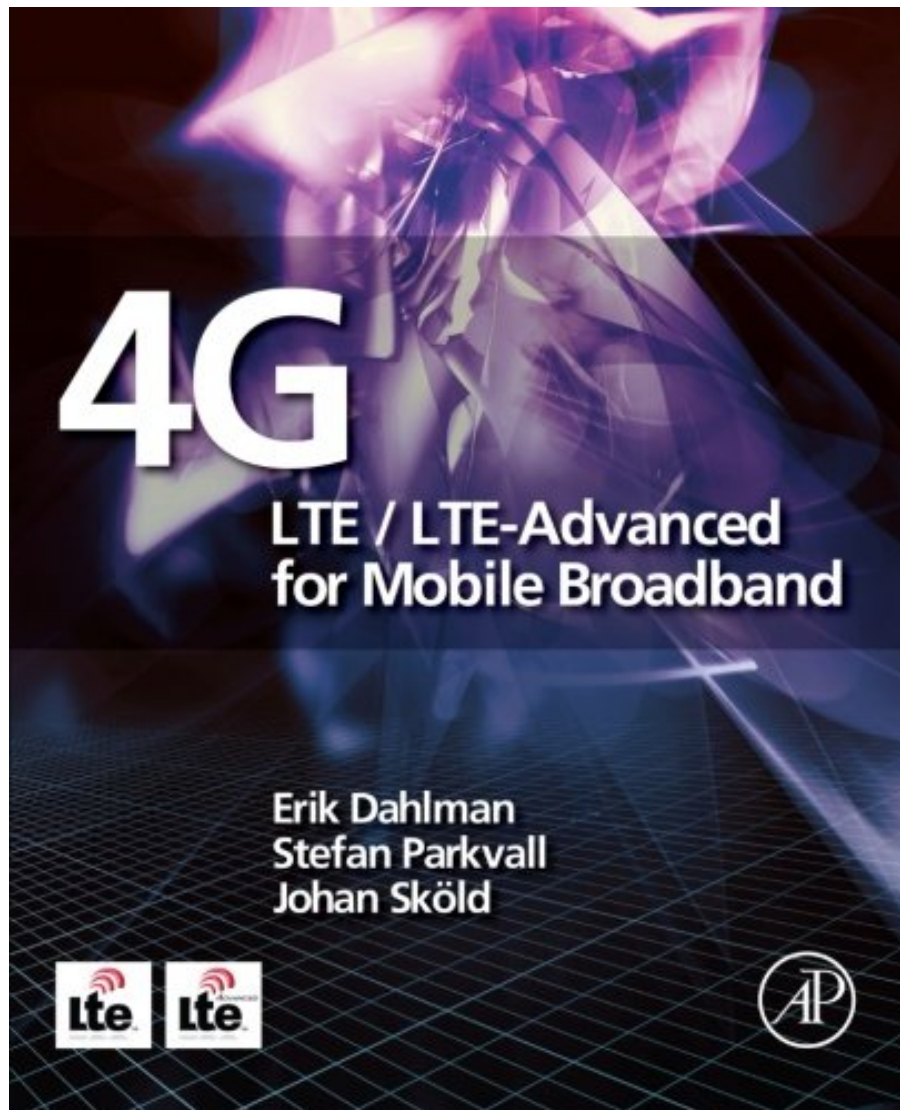


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Based on the bestseller "3G Evolution HSPA and LTE for mobile broadband" and reflecting the ongoing success of LTE throughout the world, this book focuses on LTE with full updates including LTE-Advanced to provide a complete picture of the LTE system. 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.

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- Sales Rank: #3881982 in Books
- Published on: 2013-08-09
- Released on: 2011-03-21
- Original language: English
- Dimensions: 9.25" h x 1.03" w x 7.50" l,
- Binding: Paperback
- 456 pages

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Most helpful customer reviews

17 of 17 people found the following review helpful.

Industry Standard Reference on LTE - Everything you need to know

By Joel Avrunin

As a field applications engineer working in the field of test and measurement, I was looking for a book to effectively bring me up to date on the latest standards in LTE testing. My own background cover RF, digital modulation techniques, and other standards, so I came into this book with a base of knowledge to expand into LTE. I make that statement because if you are a casual reader or "just interested", this book is definitely not for you. If you just want a survey of LTE technology, it is provided in Chapter 1, but that is merely 11 of the 400 pages in this tome. For basic knowledge, just google LTE.

If you are a serious student looking to understand the technology, where it stands today, its future limits, and how it is implemented, then look no further than this comprehensive work on LTE. It is already the industry standard, and likely to be the desk reference for any engineer working on LTE. Whatever can be explained in clear english is explained that way, including many diagrams and illustrations to illuminate the text.

The book covers basics of OFDM modulation techniques, equalization, multi-antenna techniques, link adaptation, scheduling, LTE architecture, and physical transmission concerns. Indeed, an engineer working in LTE must be concerned with everything from antenna design to data formatting to spectral emission shape, and this book covers each of these topics in turn.

On top of everything, there is a well-organized index if you need to jump around the book, a list of abbreviations and acronyms, and a comprehensive list of references for further reading. As with all Academic Press books in this series (see my review on MIMO), it is well bound and will stand up to lots of reading.

If your job description includes (or if you are looking for a job that will include) LTE, buy this book. If you are an interested amateur, save your money and get some free education on the web first.

2 of 2 people found the following review helpful.

Good coverage of the lower layers of LTE

By Robert M

This book does a good job covering the lower layers of LTE from the antenna up to the RLC. I wish it had more detail in the upper layers and the overall network especially the Enhanced Packet Core. It also lacks much material on the security aspects of LTE. I also wish it mentioned how carriers are adopting LTE and migrating EDGE and 3G to LTE. I also felt like the font was too small and made reading for long periods difficult

In short this is a good book if your interest is geared towards learning the physical and link layer aspects of LTE.

1 of 1 people found the following review helpful.

Excellent technical resource and foray into mobile communications

By Amy Ong

This book's main focus is on mobile communication 3G up to LTE (4G) and in particular radio access network (RAN). This is written by experts in this field (Ericsson) who are personally involved in the telecommunications design.

This book starts with a good overview of the telecommunications technology changes starting from GSM, leading to evolution of 4G / LTE. Basics such as spectrum allocation, link adaptation, radio interface architecture, access procedure relating to LTE cell search down to PHY level such as multi antenna techniques are covered. Where necessary, simple mathematical representations or computations, such as bandwidth utilization, channel capacity are shown. It briefly provides a simple overview of the core network (CN) component of system architecture evolution (SAE).

With an engineering background on 802.11, the mathematical coverage on OFDM and single carrier transmission appeals to me.

And for topics such as the access procedure for LTE cell search, it first lists the sequences, which is (1) Acquisition of frequency and symbols synchronization to cell,(2)Acquisition of frame timing of cell, which is determining the start of the downlink frame (3) Determination of physical layer CELL ID of cell. From here, it further delves into the specifics, providing tons of technical background and information. This is the approach used throughout the book, starting with general background information and ending with more technical details.

At times, I find the information too overwhelming for someone not involved in mobile communications design. However, this book remains a good resource both for novices and experts. I do highly recommend this book.

See all 24 customer reviews...

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