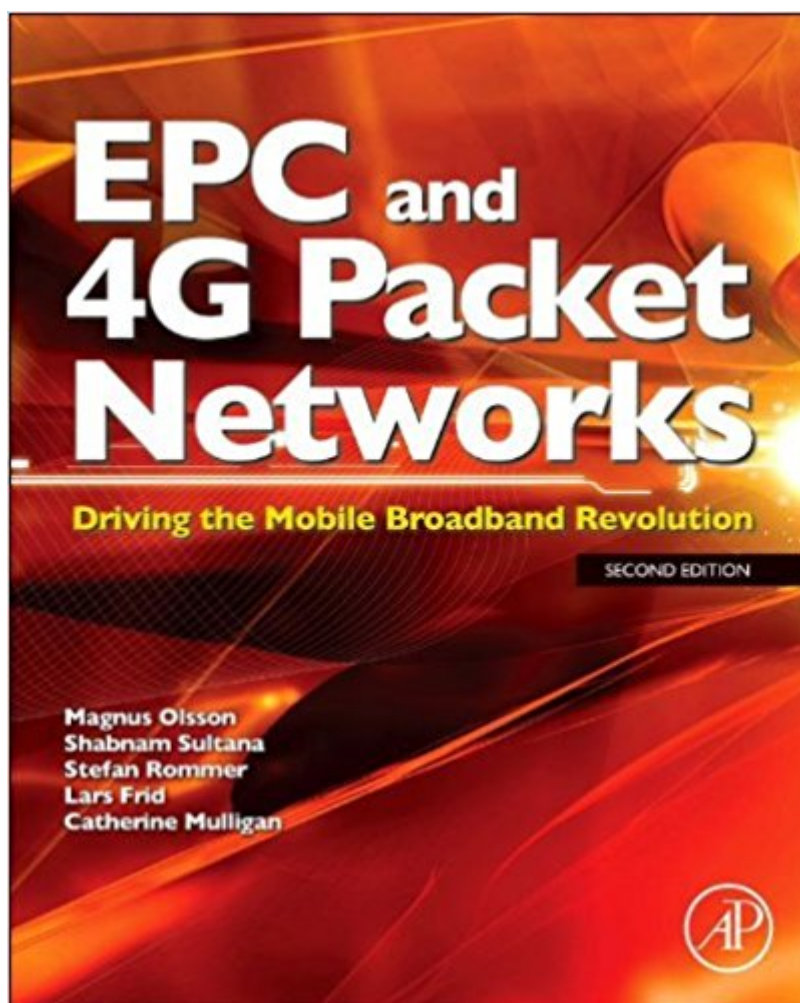




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EPC And 4G Packet Networks: Driving The Mobile Broadband Revolution



Synopsis

Get a comprehensive and detailed insight into the Evolved Packet Core (EPC) with this clear, concise and authoritative guide – a fully updated second edition that covers the latest standards and industry developments. The latest additions to the Evolved Packet System (EPS) including e.g. Positioning, User Data Management, eMBMS, SRVCC, VoLTE, CSFB. A detailed description of the nuts and bolts of EPC that are required to really get services up and running on a variety of operator networks. An in-depth overview of the EPC architecture and its connections to the wide variety of network accesses, including LTE, LTE-Advanced, WCDMA/HSPA, GSM, WiFi, etc. The most common operator scenarios of EPS and the common issues faced in their design. The reasoning behind many of the design decisions taken in EPC, in order to understand the full details and background of the all-IP core

NEW CONTENT TO THIS EDITION

- 150+ New pages, new illustrations and call flows
- Covers 3GPP Release 9, 10 and 11 in addition to release 8
- Expanded coverage on Diameter protocol, interface and messages
- Architecture overview
- Positioning
- User Data Management
- eMBMS (LTE Broadcasting)
- H(e)NodeB/Femto Cells
- LIPA/SIPTO/Breakout architectures
- Deployment Scenarios
- WiFi interworking
- VoLTE/MMTel, CS fallback and SRVCC

SAE is the core network that supports LTE, the next key stage in development of the UMTS network to provide mobile broadband. It aims to provide an efficient, cost-effective solution for the ever-increasing number of mobile broadband subscribers. There is no other book on the market that covers the entire SAE network architecture; this book summarizes the important parts of the standards, but goes beyond mere description and offers real insight and explanation of the technology. Fully updated with the latest developments since the first edition published, and now including additional material and insights on industry trends and views regarding future potential applications of SAE.

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Customer Reviews

This is a textbook on the details of cellphone networks. It is concerned more with the land-based data communication and control portions of these facilities than with the radio links connecting to the individual telephones. The book is just the proper introduction for those of us who may be familiar with computers and data networking. The authors do an excellent job with the abbreviations. These are different than the alphabet soup encountered in computer applications or telephony of the Alexander Graham Bell sort. Reading this book enables one to understand specifications for cellular networks. I highly recommend it for anyone interested in the workings of mobile data networks.

If you need more than an introduction to the EPC this is the right book. It is well organised and complete. Finding a specific information is easy. This book provides a high level view of this complex matter plus detailed descriptions and call flows of each topic.

Excellent book!!

It was a great book and I enjoyed reading it. Very well organised and categorised which make finding any information inside it an easy task. However I found it a bit difficult to learn from it since it's more like a reference book that you should have in your library.

I am still reading it, but it brings all the concepts in a very clear way. So far, excellent.

Very well written.

Good overview with general information for system architects; not necessary product development or engineering folks.

Excellent encyclopedic book about modern mobile network. It's helpful addition to 3GPP standards. Both newcomer and professional can find a lot of information.

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