EPC and 4G Packet Networks: Driving the Mobile Broadband Revolution

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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

KEY FEATURES

• The only book to describe and explain the entire EPC including architecture, features and protocols, giving you the knowledge and insight to see the potential in EPC, develop EPC products and deploy LTE/EPC mobile broadband Networks • The Second Edition includes 150+ new pages and numerous new illustrations. The content has also been focused towards the mainstream deployment scenarios • Written by established experts in the 3GPP standardization process, with extensive, in-depth experience of its goals, development and future direction • Case studies of deployment scenarios show how the functions described within EPC are placed within a live network context • Forewords written by Dr. Kalyani Bogineni and Dr. Ulf Nilsson

DESCRIPTION

• 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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Colin Rousey:

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