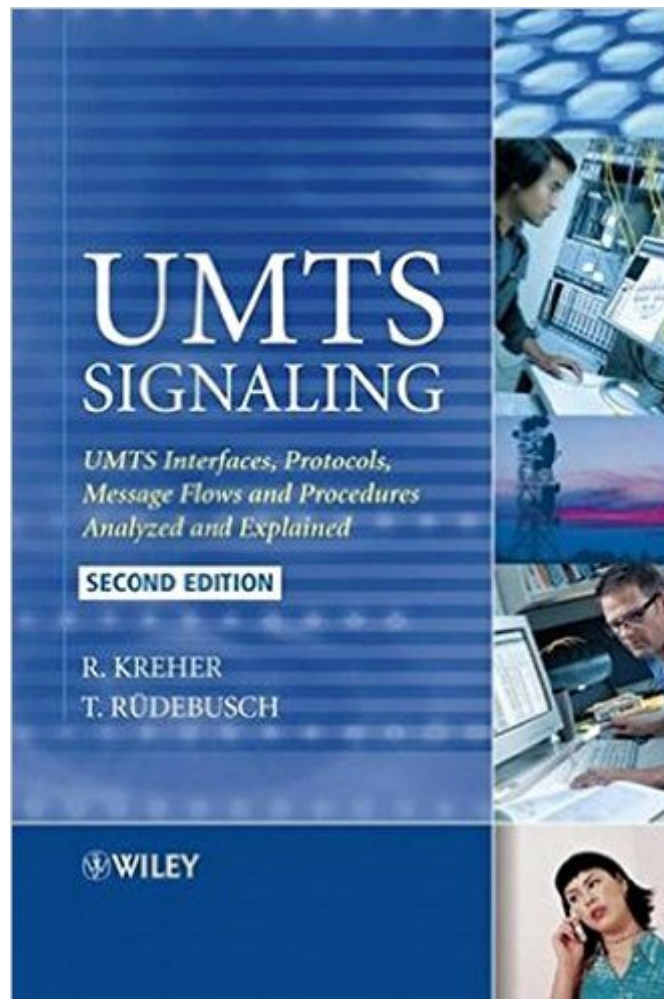


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# UMTS Signaling: UMTS Interfaces, Protocols, Message Flows And Procedures Analyzed And Explained



## Synopsis

This completely revised and updated edition of the highly successful UMTS Signaling provides a deep insight into all aspects of UMTS signalling. The chapter structure has been reworked for improved accessibility for readers, as well as including many new features and updates. The successful trial, deployment, operation and troubleshooting of 3G or UMTS infrastructures and applications is the biggest challenge facing today's mobile communications. Network element instability, network element and multi-vendor interoperability, configuration and network planning faults are just a few of the challenges affecting performance and profitability that need to be addressed. This book is an invaluable guide to resolving such problems. Highlights of the Second Edition: Includes new information and scenarios on HSPA / HSDPA / HSUPA, and IMS Covers not only WCDMA, but also TD-SCDMA issues Contains up-to-date information on releases 5 and 6, and includes a new chapter on the future releases 7 and 8 Provides crucial information for network operators and equipment suppliers keen to understand how to handle and analyse UMTS signaling procedures in order to get the network into operation, detect errors and troubleshoot faults Uses first hand, real world information to explain issues which are unclear in the standards Includes comprehensive descriptions and documentation of UMTS reference scenarios for different UMTS procedures The unified comprehensive approach taken by the authors makes this book essential reading for engineers in network operators, integrators or system suppliers who need to be at the cutting edge of this technology. It will also be an invaluable resource for postgraduates on telecommunications courses, especially those with a focus on signal analysis.

## Book Information

Hardcover: 574 pages

Publisher: Wiley; 2 edition (March 19, 2007)

Language: English

ISBN-10: 0470065338

ISBN-13: 978-0470065334

Product Dimensions: 6.9 x 1.4 x 9.8 inches

Shipping Weight: 2.7 pounds (View shipping rates and policies)

Average Customer Review: 3.0 out of 5 stars See all reviews (4 customer reviews)

Best Sellers Rank: #2,182,270 in Books (See Top 100 in Books) #81 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Satellite #6631 in Books > Computers & Technology > Networking & Cloud Computing > Internet, Groupware, &

## Customer Reviews

The book excellently covers UMTS signalling and protocols with detailed call setup signal flows, various Radio and packet channel allocation scenarios, HSDPA flows, and MAC flows. A must have reference before going through the various 3GPP documents.

UMTS is a difficult topic because it is so complex. The level of detail of this book is somewhere between a tutorial and the standards documents themselves and provides useful insights and overviews.. (Fortunately I mostly work on LTE)

Good as reference. Bad as explanatory. At the first time I saw this book over a colleague's desk I got very interested. Finally (I thought) I would get an "easier" approach to 3GPP standards and on understanding basic UMTS message flows! After buying the book and spending some time on it, I perceived that this book is, in truth, a joint of all processes described on 3GPP, without any relevant improvement on the sense of making UMTS' message flows easier to digest... Nowadays I use it much more as a reference literature (to know where to learn - on the standards).

I too was hoping that this book would help sort out the 3GPP gobblety gook. But nope, this is yet another book like so many on these topics that are essentially a compendium of high level manufacturer's 3GPP contributions and power point slides. It's really hard to tell if the authors know anything about UMTS Signaling because their English is so bad. The preface says the book is "...directed at UMTS experts, who need to analyze UMTS signaling procedures at the most detailed level." But then later it says the emphasis is "...on the general ideas that help to operate and optimize the network." Then, in another part, it says "The first part of this book is a refresher on UMTS basics, and the second part continues with in-depth message flow scenarios. I am really surprised that John Wiley editors let this book out. It's unclear why 5 pages are devoted to the history of cryptography, including 2 pages going back to 400 BC. Really, do we need all this? Lots of errors in facts and/or on the drawings. Figure 1.11 shows GSM with 14 kbp/s and 14.4 Kbit/sec for HSDPA & HSUPA having very different lengths. I think they should be Mbps for HSDPA & HSUPA. Here are some other really uninspired quotations: "...A few years ago, UMTS technology was at (sic) the early deployment." "A proximity of time-critical functions to the air interface is crucial." In 3GPP Release 5,

the UMTS evolution continues." "Every day the number of equipments (sic) and their feature sets gets broader." "UMTS is quite blurry beyond release 6." The chapters are also very oddly separated, with chapter 2 running less than 20 pages and chapter 3 running 140 pages.

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