



# Testing UMTS: Assuring Conformance and Quality of UMTS User Equipment

*Daniel Fox*

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A modern mobile phone is a highly complex electronic system made up from a variety of diverse sub-systems, all of which must work seamlessly together. Today's users have very high expectations which set tough demands on manufacturers as they introduce third generation technology. While quality, in terms of the phone's stability, performance and behaviour on the network, originate from good design, the only way to be sure of quality is by testing it. This makes testing a very important part of any mobile phone's life cycle, from development through to manufacture and beyond, touching a number of different disciplines and departments.

*Testing UMTS* is divided in three sections. Section One provides an overview of major types of testing and the organisations and tasks involved. In particular it looks at what is involved in conformance testing and device certification. Section Two is more technical and looks at the UMTS standard itself, working through the protocol layers. Future trends and their impact on testing mobile devices are examined in Section Three, including the emergence of new technologies both in the access network and the core network and the evolution of new testing methodologies.

- Examines UMTS and the testing of UMTS devices which are huge areas in the testing process
- Provides essential information on processes and techniques for mobile phone testing
- Operation of the UMTS standard is described from a test point of view
- Focuses on most important areas of the 3rd-Generation Partnership Project (3GPP) standard from a test perspective
- Offers advice on products, services and resources that aid the testing process.

This book is an ideal text for engineers and managers who are either directly involved in the process of testing UMTS mobiles, or who are looking for an understanding of what is involved in testing. Professionals involved in the development of UMTS mobiles, integration and verification, conformance testing, operator acceptance testing, manufacturing and servicing will find this book indispensable.

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