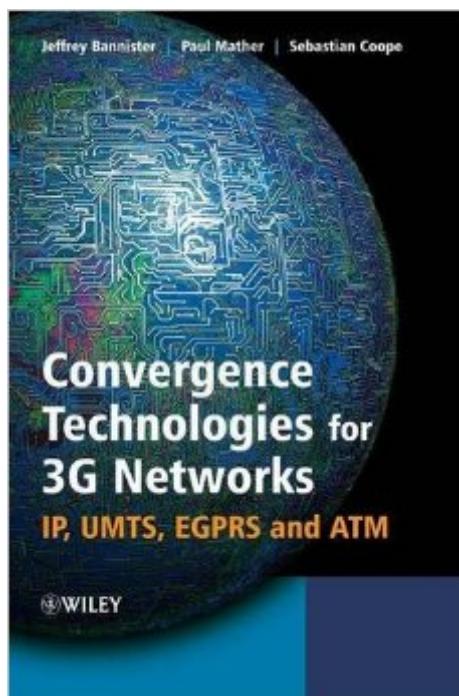


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# Convergence Technologies For 3G Networks: IP, UMTS, EGPRS And ATM



## **Synopsis**

The merging of voice and data on a single network opens powerful new possibilities in communications. Only a fundamental understanding of both technologies will ensure you are equipped to maximise their full potential. Convergence Technologies for 3G Networks describes the evolution from cellular to a converged network that integrates traditional telecommunications and the technology of the Internet. In particular, the authors address the application of both IP and ATM technologies to a cellular environment, including IP telephony protocols, the use of ATM/AAL2 and the new AAL2 signalling protocol for voice/multimedia and data transport as well as the future of the UMTS network in UMTS Release 5/6 All-IP architecture. Convergence Technologies for 3G Networks: Explains the operation and integration of GSM, GPRS, EDGE, UMTS, CDMA2000, IP, and ATM. Provides practical examples of 3G connection scenarios. Describes signalling flows and protocol stacks. Covers IP and ATM as used in a 3G context. Addresses issues of QoS and real-time application support. Includes IP/SS7 internetworking and IP softswitching. Outlines the architecture of the IP Multimedia Subsystem (IMS) for UMTS. Convergence Technologies for 3G Networks is suited for professionals from the telecommunications, data communications and computer networking industries..

## **Book Information**

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## **Customer Reviews**

This book gives an excellent overview of the way 3G networks are operating: air interface, radio access and core elements. It compiles and represents in readable form various IETF RFC and

3GPP documents. For my daily work I would appreciate more details on all-IP UMTS (the book ends with UMTS release 5), MEF backhaul, IpSec and packet core elements. I would trade extensive coverage of ATM, GPRS legacy and barely readable network captures for that. I hope a second edition with more contemporary subheading "IP, MEF, LTE and NGMN" is already in authors' pipeline. I'm on a waiting list...

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