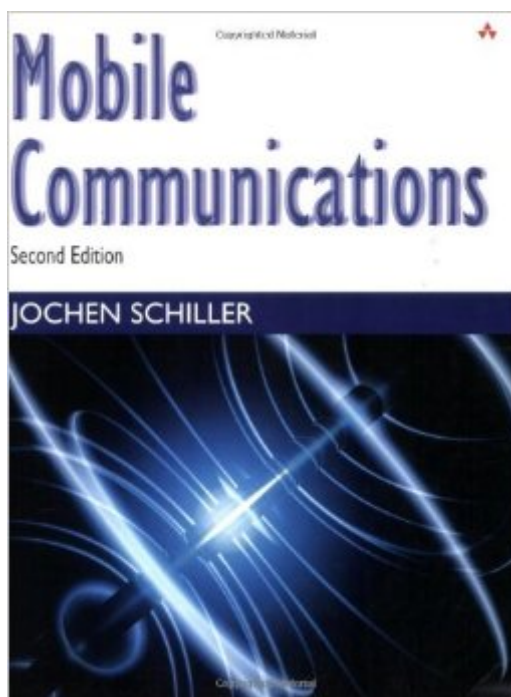


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# Mobile Communications (2nd Edition)



## Synopsis

The mobile communications market remains the fastest growing segment of the global computing and communications business. The rapid progress and convergence of the field has created a need for new techniques and solutions, knowledgeable professionals to create and implement them, and courses to teach the background theory and technologies while pointing the way towards future trends. In this book Jochen Schiller draws on his extensive experience to provide a thorough grounding in mobile communications, describing the state of the art in industry and research while giving a detailed technical background to the area. The book covers all the important aspects of mobile and wireless communications from the Internet to signals, access protocols and cellular systems, emphasizing the key area of digital data transfer. It uses a wide range of examples and other teaching aids, making it suitable for self-study and university classes. The book begins with an overview of mobile and wireless applications, covering the history and market, and providing the foundations of wireless transmission and Medium Access Control. Four different groups of wireless network technologies are then covered: telecommunications systems, satellite systems, broadcast systems and wireless LAN. The following chapters about the network and transport layers address the impairments and solutions using well-known Internet protocols such as TCP/IP in a mobile and wireless environment. The book concludes with a chapter on technologies supporting applications in mobile networks, focusing on the Web and the Wireless Application Protocol (WAP). Each chapter concludes with a set of exercises for self-study (with solutions available to instructors) and references to standards, organizations and research work related to the topic. New to this edition

Integration of higher data rates for GSM (HSCSD, GPRS) New material on 3rd generation (3G) systems with in-depth discussion of UMTS/W-CDMA Addition of the new WLAN standards for higher data rates: 802.11a, b, g and HiperLAN2 Extension of Bluetooth coverage to include IEEE 802.15, profiles and applications Increased coverage of ad-hoc networking and wireless profiled TCP Migration of WAP 1.x and i-mode towards WAP 2.0

Jochen Schiller is head of the Computer Systems and Telematics Working Group in the Institute of Computer Science, Freie Universitat Berlin, and a consultant to several companies in the networking and communication business. His research includes mobile and wireless communications, communication architectures and operating systems for embedded devices, and QoS aspects in communication systems.

## Book Information

Paperback: 492 pages

Publisher: Pearson; 2 edition (September 21, 2003)

Language: English

ISBN-10: 0321123816

ISBN-13: 978-0321123817

Product Dimensions: 7.4 x 1.2 x 9.2 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 stars [See all reviews](#) (4 customer reviews)

Best Sellers Rank: #339,509 in Books (See Top 100 in Books) #31 in [Books > Computers & Technology > Networking & Cloud Computing > Wireless Networks](#) #135 in [Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Radio](#) #145 in [Books > Computers & Technology > Networking & Cloud Computing > Data in the Enterprise > Client-Server Systems](#)

## Customer Reviews

Though not perfect, it is still the best book around on wireless networks. It was chosen as the course book for mobile and wireless networks course during my graduation. I liked it very much and enjoyed reading it. It is written in a simple and easy to follow style, avoiding unnecessary text and explanations. It covers a wide range of topics in wireless networks, e.g., MAC for wireless, telecom networks, WLANs, mobile network layer (Mobile IP and etc), mobile transport layer, and satellite and broadcast systems, along with an introductory chapter on wireless transmission fundamentals. However it is SERIOUSLY missing IEEE 802.16 WiMAX. I have consulted a few other books in this area. In particular, I found it better than William Stallings's *Wireless Communications & Networks*.

I think this is the only book that present you the whole perspective of mobile communications from a computer science point of view, it goes deep in details, but is not intended for Math people, most for computer people. This helps me a lot to understand the big perspective of a Mobile telephony carrier.

It looked nothing like the cover, the ISBN had a sticker over it. I couldn't peel off the sticker to look and see if it was the same book. The book printing was light on some pages and dark on others. I think this was a knock off copy from the reseller.

It's a completed and necessary material for graduated mobile communications course. Very easy to understand.

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