



## Wireless Communications (Wiley - IEEE)

By Andreas F. Molisch

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### Wireless Communications (Wiley - IEEE) By Andreas F. Molisch

"Professor Andreas F. Molisch, renowned researcher and educator, has put together the comprehensive book, *Wireless Communications*. The second edition, which includes a wealth of new material on important topics, ensures the role of the text as the key resource for every student, researcher, and practitioner in the field."

—**Professor Moe Win**, MIT, USA

Wireless communications has grown rapidly over the past decade from a niche market into one of the most important, fast moving industries. Fully updated to incorporate the latest research and developments, *Wireless Communications, Second Edition* provides an authoritative overview of the principles and applications of mobile communication technology.

The author provides an in-depth analysis of current treatment of the area, addressing both the traditional elements, such as Rayleigh fading, BER in flat fading channels, and equalisation, and more recently emerging topics such as multi-user detection in CDMA systems, MIMO systems, and cognitive radio. The dominant wireless standards; including cellular, cordless and wireless LANs; are discussed.

- Topics featured include: wireless propagation channels, transceivers and signal processing, multiple access and advanced transceiver schemes, and standardised wireless systems.
- Combines mathematical descriptions with intuitive explanations of the physical facts, enabling readers to acquire a deep understanding of the subject.
- Includes new chapters on cognitive radio, cooperative communications and relaying, video coding, 3GPP Long Term Evolution, and WiMax; plus significant new sections on multi-user MIMO, 802.11n, and information theory.
- Companion website featuring: supplementary material on 'DECT', solutions manual and presentation slides for instructors, appendices, list of abbreviations and other useful resources.

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## **Editorial Review**

### **Review**

“I can recommend it unconditionally to a wide range of readers...” (*IEEE Communications Magazine*, June 2006)

### **From the Back Cover**

*Wireless Communications* presents the most comprehensive coverage of this field which, in only a decade, has grown from a niche market into one of the most important industries. While previous systems were generally intended to provide mobile speech communications, mobile data communications have since developed.

This essential textbook on the principles and applications of mobile radio is an all-encompassing current treatment of the area, addressing both the traditional elements, such as Rayleigh fading, BER in flat fading channels, and equalization, and more recently emerging topics like multi-user detection in CDMA systems, OFDM and smart antennas. These fundamentals are related to practical systems, and the dominant wireless standards, including cellular, cordless and wireless LANs, are discussed.

- A comprehensive and current treatment of a very hot topic, one of the fastest growing fields of communications
- Topics featured include: wireless propagation channels, transceivers and signal processing, multiple access and advanced transceiver schemes, and standardized wireless systems
- Combines mathematical descriptions with intuitive explanations of the physical facts, to assist readers in acquiring a deeper understanding of the area

*Wireless Communications* is an essential text for advanced undergraduate students with a working knowledge of standard digital communications, graduate students and practising engineers. It will also be an invaluable source of reference for wireless communications engineers.

### **Companion website includes:**

- Supplementary material on 'DECT'
- Solutions manual and presentation slides for instructors
- Appendices
- List of abbreviations
- Other useful resources

## **Users Review**

### **From reader reviews:**

#### **Rodney Alvarez:**

This Wireless Communications (Wiley - IEEE) book is not really ordinary book, you have it then the world is in your hands. The benefit you receive by reading this book will be information inside this e-book incredible fresh, you will get data which is getting deeper you actually read a lot of information you will get.

This Wireless Communications (Wiley - IEEE) without we comprehend teach the one who looking at it become critical in thinking and analyzing. Don't possibly be worry Wireless Communications (Wiley - IEEE) can bring any time you are and not make your carrier space or bookshelves' grow to be full because you can have it inside your lovely laptop even mobile phone. This Wireless Communications (Wiley - IEEE) having fine arrangement in word in addition to layout, so you will not really feel uninterested in reading.

**Marco Roy:**

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**Loretta Manson:**

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