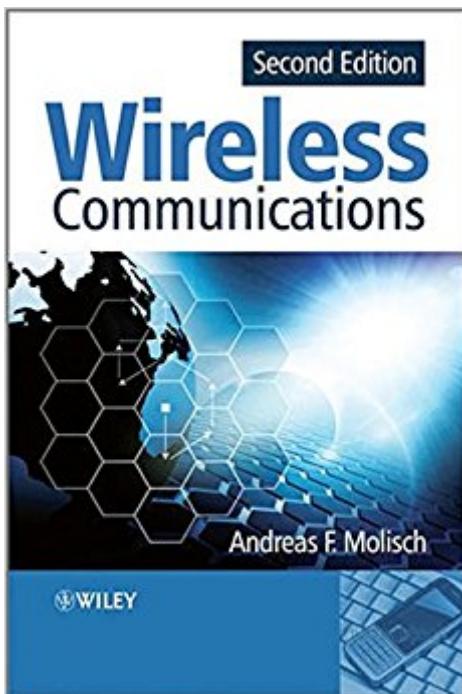


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Wireless Communications



Synopsis

"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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"If you have read this far you must agree that this book has a lot of content to offer." (IEEE Vehicular Technology Magazine, September 2007) --This text refers to an out of print or unavailable edition of this title.

"Professor Andreas F. Molisch, renowned researcher and educator, has put together a comprehensive, clear, and authoritative book on wireless communications. The Second Edition, which includes a wealth of new material on important emerging topics, ensures the book will continue to be a 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 equalization, and more recently emerging topics like 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 standardized 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: solutions manual and presentation slides for instructors, appendices, list of abbreviations and other useful resources.

I bought this book as it was required by my professor and as you might of guessed...my professor was Molisch. I am not one for buying books that are required for a class when the professor wrote the book; HOWEVER, this book was top notch and covers A LOT of material in depth. This book

focuses on concepts with strong mathematics. I would say that someone should probably read an intro Communications book before attempting this BUT this was taught as if there was no pre-req so you can start with this book if you like.

This book provides a very good introduction to wireless communications; it does cover a broad spectrum of topics. And, yes, there is a lot of material in this book! However, the content is quite technical and on par with a first-year graduate-level course. I would not recommend this book for someone who has never been exposed to wireless or RF concepts; this book will feel like like stepping into 'the deep end of the pool' for a novice with no former exposure. Being an RF guy I have seen some of this material before, however, there are topics in this book I found to be uncharted territory, but not terribly difficult to understand. However, I would recommend a more basic book for the newly initiated to wireless before tackling this book. I find this book a good stepping stone to more advanced wireless books that build on this introduction. I also found this book provides a good background in which to read many of the published wireless research papers.

From reviewing basic concepts to showing both consolidated and on-research technologies, this book guides you through the world of wireless communications, beginning with a very instructive overview of the history, problems, technologies and challenges of this field. I am a graduate student and the book suits very well my purposes of getting acquainted with the topic and going further with the theoretical development.

I have had my fair share of textbooks during my college career, this is by far one of the better books I have used. Material is adequately covered, not too much unnecessary detail or too vague. Sample problems and chapter problems adequately cover material at a fair difficulty level. If you want to gain an understanding of the architecture behind wireless networks this is a good building block

Excellent and current

This book was recommended by a teacher for an investigation I had to do. It really filled my expectations and completed by research.

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