



Fading and Interference Mitigation in Wireless Communications

By Stefan Panic, Mihajlo Stefanovic, Jelena Anastasov, Petar Spalevic

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The rapid advancement of various wireless communication system services has created the need to analyze the possibility of their performance improvement. Introducing the basic principles of digital communications performance analysis and its mathematical formalization, **Fading and Interference Mitigation in Wireless Communications** will help you stay up to date with recent developments in the performance analysis of space diversity reception over fading channels in the presence of cochannel interference.

The book presents a unified method for computing the performance of digital communication systems characterized by a variety of modulation and detection types and channel models. Explaining the necessary concepts of digital communication system design, the book guides you step by step through the basics of performance analysis of digital communication receivers.

Supplying you with the tools to perform an accurate performance evaluation of the proposed communication scenarios, the book includes coverage of multichannel reception in various fading environments, influence of cochannel interference, and macrodiversity reception when channels are simultaneously affected by various types of fading and shadowing. It also includes many numerical illustrations of applications that correspond to practical systems.

The book presents a large collection of system performance curves to help researchers and system designers perform their own tradeoff studies. The presented collection of system performances will help you perform trade-off studies among the various communication type/drawback combinations in order to determine the optimal choice considering the available constraints.

The concepts covered in this book can be useful across a range of applications, including wireless, satellite, terrestrial, and maritime communications.

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- Sales Rank: #5327794 in Books
- Published on: 2013-12-11
- Original language: English
- Number of items: 1
- Dimensions: 9.30" h x .80" w x 6.20" l, .0 pounds
- Binding: Hardcover
- 264 pages

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