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Description. Volume One of the Wireless Communications Design Handbook provides an in-depth look at interference problems in satellite communications. The material presented is from a satellite or spacecraft hardware point of view rather than from theoretical models. Each satellite subsystem is described in detail to point out interference and noise problems associated with it.

Wireless Communications Design Handbook - 1st Edition

It covers some of the most common interference models usually

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addressed, and it describes material related to transmitter and receiver hardware design and how interference control plays a significant role in equipment performance. Each of the three Wireless Communications Design Handbook volumes addresses theory and immediate applications. Design issues are also considered in detail for the protection of wireless ground systems against interference.

Wireless Communications Design Handbook: Terrestrial and ...

Design issues are also considered in detail for the protection of wireless ground systems against interference. Key Features * An applications-oriented reference for engineers, system designers, and practitioners * Addresses the most common interference concerns in ground mobile wireless communications systems * Provides a hardware-oriented approach for addressing transmitter and receiver interference issues, as well as ground mobile designs * Gives extensive detail regarding noise and ...

Wireless Communications Design Handbook: Terrestrial and ...

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The material presented provides a good, practical, and theoretical background of noise sources and their analysis, as well as methodologies for minimizing interference problems in electronic design. Key Features * An applications-oriented reference for engineers, system designers, and practitioners * Includes computational techniques for simulation * Addresses the most common

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interference concerns in wireless communications circuit designs *
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The need for controlling interference and limiting noise problems in wireless communications systems starts at the fundamental levels of circuit design. This book includes practical case studies covering how to avoid undesired interference and noise problems in their designs.

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Effective wireless communications have become mandatory for productivity and public safety in an increasing variety of venues. From hospitals and college campuses to apartment buildings and sporting arenas, choosing the right technology for seamless wireless connectivity for your business and keeping it current is a challenge.

Volume One of the Wireless Communications Design Handbook provides an in-depth look at interference problems in satellite communications. The material presented is from a satellite or spacecraft hardware point of view rather than from theoretical models. Each satellite subsystem is described in detail to point out interference and noise problems associated with it. The book also addresses typical architectures and hardware design issues in satellites. In addition, a detailed look at space interference is discussed with emphasis on the

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possible impact on satellite electronics. An applications-oriented reference for engineers, system designers, and practitioners Addresses the most common interference concerns in ground mobile wireless communications systems Hardware-oriented approach to interference and noise concerns as well as satellite subsystem design All satellite subsystems described in great technical detail Significantly covers space interference with a slanted approach to satellite hardware effects Covers modern hardware design for low earth orbit satellites to be used in wireless communications

The need for controlling interference and limiting noise problems in wireless communications systems starts at the most fundamental levels of circuit design. When efficient approaches for noise control are implemented at the circuit level, it helps significantly to ensure the effective noise control for the overall system design. This book is a practical reference for engineers who are particularly interested in practical case studies covering how to avoid undesired interference and noise problems in their designs. It covers a significant number of chapters dedicated to different aspects of digital, analog, and mixed mode analog/digital design which are directly affected by noise and interference issues. Each of the three Wireless Communications Design Handbook volumes addresses theory and immediate applications. The

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Approach followed is strictly hardware-oriented. The material presented provides a good, practical, and theoretical background of noise sources and their analysis, as well as methodologies for minimizing interference problems in electronic design. Key Features * An applications-oriented reference for engineers, system designers, and practitioners * Includes computational techniques for simulation * Addresses the most common interference concerns in wireless communications circuit designs * Presents a hardware-oriented approach for addressing analog, digital, and mixed-mode interference concerns with a focus on design * Addresses noise sources, interference models, and design solutions simultaneously * Combines analytical and computer modeling for interference analysis * Addresses interference concerns from the IC level to the subsystem level

Most books in wireless communications address technical subjects which are relevant to ground mobile systems. Volume 2: Terrestrial and Mobile Interference of the Wireless Communications Design Handbook addresses a topic frequently overlooked in ground mobile wireless system design: interference problems at the hardware level. This book employs a hardware-oriented approach, which is the most effective approach for addressing interference and noise problems in ground mobile wireless systems. The book is a practical reference for

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The need for controlling interference and limiting noise problems in wireless communications systems starts at the most fundamental levels of circuit design. When efficient approaches for noise control are implemented at the circuit level, it helps significantly to ensure the effective noise control for the overall system design. This book is a practical reference for engineers who are particularly interested in practical case studies covering how to avoid undesired interference and noise problems in their designs. It covers a significant number of chapters dedicated to different aspects of digital, analog, and mixed mode analog/digital design which are directly affected by noise and interference issues. Each of the three Wireless Communications Design Handbook volumes addresses theory and immediate applications. The approach followed is strictly hardware-oriented. The material presented provides a good, practical, and theoretical background of noise sources and their analysis, as well as methodologies for minimizing interference problems in electronic design. An applications-oriented reference for engineers, system designers, and practitioners Includes computational techniques for simulation Addresses the most common interference concerns in wireless communications circuit designs Presents a hardware-oriented approach for addressing analog,

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Addresses noise sources, interference models, and design solutions
simultaneously Combines analytical and computer modeling for
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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

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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.

This monograph is intended for the designers and would-be designers of secure and efficient wireless communication systems under intentional interference. Along with the widespread of wireless devices, especially reconfigurable software defined radios, jamming has become a serious threat to civilian communications. In this book, going beyond traditional communication system design that mainly focuses on accurate information transmission under benign environments, we aim to enhance the physical layer security of communication systems by integrating modern cryptographic techniques into transceiver design,

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so as to achieve secure high-speed transmission under hostile interference with high reliability and efficiency. We revisit existing jamming patterns, and introduce new jamming patterns. We analyze the weaknesses of existing anti-jamming techniques. We present innovative and feasible anti-jamming techniques, which can strengthen the inherent security of the 3G, 4G and the upcoming 5G systems with minimal and inexpensive changes to the existing CDMA, frequency hopping and OFDM schemes. We also provide benchmarks for system performance evaluation under various jamming scenarios through capacity analysis. This book includes design principles, in-depth theoretical analysis and practical design examples, and will be of interest to academic researchers as well as professionals in industry.

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