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## **Introduction To Spread Spectrum Communication**

Covers basic digital communication and spread spectrum concepts, and features exceptionally complete treatments of important hot topics such as spectrum spreading sequences; the code acquisition and tracking process; the effects of jamming on spread spectrum

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communications and the use of coding/interleaving to combat the detrimental effects of jamming; designing spread spectrum systems for low probability of the intercept; and the design of code division multiple access systems, with examples.

## **Introduction to Spread Spectrum Communications:**

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The formal definition of spread spectrum is more precise: an RF communications system in which the baseband signal bandwidth is intentionally spread over a larger bandwidth by injecting a higher frequency signal (Figure 1). As a direct consequence, energy used in transmitting the signal is spread over a wider



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bandwidth, and  
appears as noise.  
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**An Introduction to  
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This text is designed for senior/graduate level spread spectrum communications courses found in Electrical Engineering Departments. Self-contained, this text offers a thoroughly up-to-date, accurate and insightful examination

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of spread spectrum system analysis and applications. Features. Features. presents one of the most complete treatments of spectrum spreading sequences available, covering the construction of code generators as well as the analysis of such codes for m-sequences, Gold ...

## **Introduction to Spread Spectrum Communications -**

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The term "spread spectrum" refers to the expansion of signal bandwidth, by several orders of magnitude in some cases, which occurs when a key is attached to the communication channel.

## **An Introduction to Spread-Spectrum Commun - Maxim Integrated**

Besides the traditional

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military application areas, there is a growing and intense interest in spread spectrum communications systems for evolving civil applications, e.g., cellular-mobile communications, personal communications, and satellite-mobile communications. Ideal for those who need to get up to speed or current quickly in this

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area, this self-contained exploration of spread spectrum system analysis and applications provides a solid theoretical background along with an abundance of ...

## **An Introduction to Spread-Spectrum Communications | Guide ...**

Spread spectrum (SS) technology is used in multiple access communication to

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increase resistance to signal interference from multiple transmission paths and to increase bandwidth efficiency. In this chapter, we describe several digital modulation techniques that are used in spread spectrum communication.

## **Introduction to Spread Spectrum Communication Systems**

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A spread spectrum communications system is one that is built upon the principle of transmitting information signals over a much wider bandwidth than is strictly necessary for transferring the information.

## **Spread Spectrum Communications - an overview ...**

Introduction Spread  
Spectrum refers to a

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system originally developed for military applications, to provide secure

communications by spreading the signal over a large frequency band. Figure 1 represents a narrow band signal in the frequency domain. These narrowband signals are easily jammed by any other signal in the same band.



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**Understanding  
Spread Spectrum for  
Communications - NI**

A SPREAD-SPECTRUM  
OVERVIEW Over thirty  
years have passed  
since the terms spread-  
spectrum (SS) and  
noise modulation and  
correlation (NOMAC)  
were first used to  
describe a class of  
signaling techniques  
possessing several  
desirable attributes for  
com-

# Get Free Introduction To Spread Spectrum **Part 1**

## **INTRODUCTION TO SPREAD-SPECTRUM COMMUNICATION**

Spread-spectrum (SS) communications technology was first described on paper by an actress and a musician! In 1941, Hollywood actress Hedy Lamarr and pianist George Antheil described a secure radio link to control torpedos and received U.S. patent

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#2.292.387. It was not  
taken seriously at that  
time by the U.S. Army  
and was

**An Introduction to  
Direct-Sequence  
Spread-Spectrum ...**  
Introduction to Spread-  
Spectrum  
Communications By  
Roger L. Peterson  
(Motorola), Rodger E.  
Ziemer (University of  
Co. at Colorado  
Springs), and David E.  
Borth (Motorola)  
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COMMUNICATION The  
term "spread  
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occurs when a key is  
attached to the

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For example, spread-spectrum communications includes the subareas of code families with good correlation properties, multiuser detection, and ultra wideband communications for resolving multipath channels.

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I. INTRODUCTION

Spread-spectrum systems have been developed since about the mid-1950's. The initial applications have been to military antijamming tactical communications, to guidance systems, to experimental multipath systems, and to other

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applications [1].  
Communication

**ON 5, 1982 Theory  
of Spread-Spectrum  
Communications-A  
Tutorial**

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R.L. Peterson, R.E.  
Ziemer, and D.E. Borth,  
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Prentice Hall, Inc., New



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Publishing R.L.

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Prentice Hall, Inc.,

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Ziemer, and D.E.  
Borth, “Introduction**

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register sequences for  
spread-spectrum  
systems --Code  
tracking loops --Initial  
synchronization of the  
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code --Performance of

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