

2. TELECOMMUNICATIONS BASICS

The purpose of any telecommunications system is to transfer *information* from the sender to the receiver by a means of a communication *channel*.

The information is carried by a *signal*, which is certain physical quantity that changes with time.

The signal can be a voltage proportional to the amplitude of the voice, like in a simple telephone, a sequence of pulses of light in an optical fibre, or a radio-electric wave irradiated by an antenna.

For analog signals, these variations are directly proportional to some physical variable like sound, light, temperature, wind speed, etc. The information can also be transmitted by digital binary signals, that will have only two values, a digital *one* and a digital *zero*. Any analog signal can be converted into a digital signal by appropriately *sampling* and then coding it. The sampling frequency must be at least twice the maximum frequency present in the signal in order to carry *all* the information contained therein. Random signals are the ones that are unpredictable and can be described only by statistical means.

Noise is a typical random signal, described by its mean power and frequency distribution. A signal can be characterised by its behaviour over time or by its frequency components, which constitute its spectrum. Some examples of signals are shown in Figure TB 1.

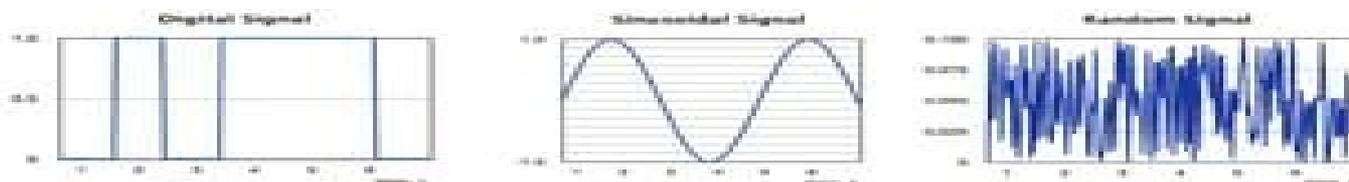


Figure TB 1: Examples of signals

Any periodic signal is composed of many sinusoidal components, all of them multiples of the fundamental frequency, which is the inverse of the period of the signal. So a signal can be characterised either by a graph of its amplitude over time, called a waveform, or a graph of the amplitudes of its frequency components, called a spectrum.

Figure TB 2: Waveforms, Spectrum and filters

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Yi-Tong Ma



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Table of Contents Telecommunications Basics

1. Understanding the eBook Telecommunications Basics
 - The Rise of Digital Reading Telecommunications Basics
 - Advantages of eBooks Over Traditional Books
2. Identifying Telecommunications Basics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Telecommunications Basics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Telecommunications Basics
 - Personalized Recommendations
 - Telecommunications Basics User Reviews and Ratings
 - Telecommunications Basics and Bestseller Lists
5. Accessing Telecommunications Basics Free and Paid eBooks
 - Telecommunications Basics Public Domain eBooks
 - Telecommunications Basics eBook Subscription Services
 - Telecommunications Basics Budget-Friendly Options
6. Navigating Telecommunications Basics eBook Formats

- ePub, PDF, MOBI, and More
- Telecommunications Basics Compatibility with Devices
- Telecommunications Basics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Telecommunications Basics
 - Highlighting and Note-Taking Telecommunications Basics
 - Interactive Elements Telecommunications Basics
- 8. Staying Engaged with Telecommunications Basics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Telecommunications Basics
- 9. Balancing eBooks and Physical Books Telecommunications Basics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Telecommunications Basics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Telecommunications Basics
 - Setting Reading Goals Telecommunications Basics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Telecommunications Basics
 - Fact-Checking eBook Content of Telecommunications Basics
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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