

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.

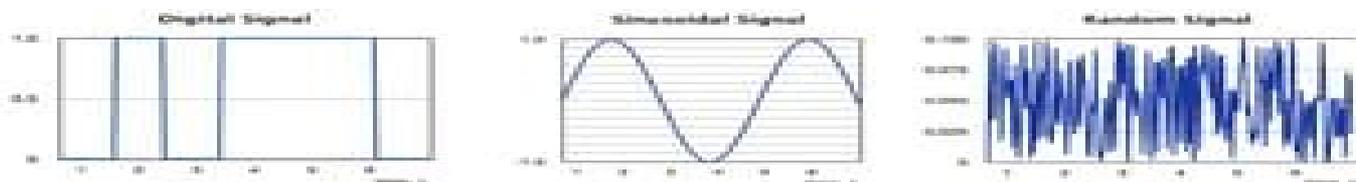


Figure TB 1: Examples of signals

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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The Basics Of Telecommunications:

Whispering the Secrets of Language: An Emotional Quest through **The Basics Of Telecommunications**

In a digitally-driven earth wherever monitors reign supreme and instant interaction drowns out the subtleties of language, the profound secrets and mental subtleties concealed within words usually go unheard. However, located within the pages of **The Basics Of Telecommunications** a interesting literary treasure sporting with natural emotions, lies an exceptional journey waiting to be undertaken. Written by a talented wordsmith, this marvelous opus invites viewers on an introspective trip, gently unraveling the veiled truths and profound affect resonating within the very cloth of each and every word. Within the mental depths of the touching review, we will embark upon a sincere exploration of the book is key subjects, dissect their captivating publishing design, and fail to the powerful resonance it evokes serious within the recesses of readers hearts.

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