

## 2. TELECOMMUNICATIONS BASICS

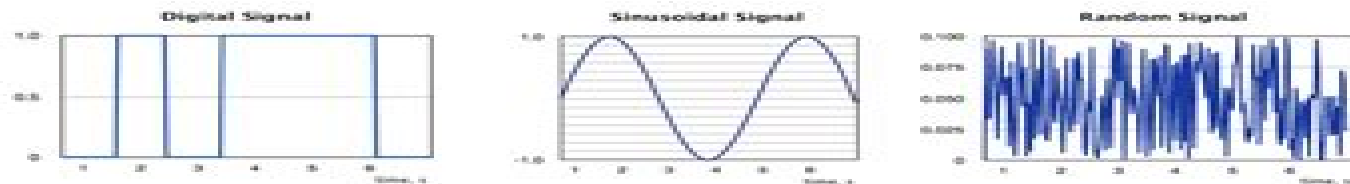
The purpose of any telecommunications system is to transfer *information* from the sender to the receiver by a means of a communication *channel*.

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*

# Telecommunications Basics

**Marcel A. Müller**



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