

## Introduction to Digital Signal Processing (DSP)

Recent developments in digital computers open the way to this subject. The general block diagram of a DSP system is shown below:



The input  $x(t)$  is an analogue signal (speech, video,...).

**1-pre sampling filter:** the signal is first bandlimited (for antialiasing<sup>n</sup>) using a LPF having cutoff  $f_{max}$ , where  $f_{max}$  is the maximum frequency content in  $x(t)$  (to ensure that the highest frequency is within the bounds for which the signal can be recovered)

**2-A/D converter :**where the bandlimited analogue signal is converted into digital  $x(nT_s)$  using an analogue to digital converter (A/D) that consists of:  
a) a sampler converts the continuous time signal into discrete time signal (with sampling frequency  $f_s \leq 2f_{max}$  according to Nyquist theorem, where  $T_s = 1/f_s$ )  
b) a quantizer : assigning a binary value to the analogue samples.

**3DSP:** The digital signal (discrete)  $x(nT_s)$  or simply written as  $x(n)$  is applied to a digital computer with a suitable interface card( sound card, video card,...). Now, inside this computer a program ( high level or low level) is written to perform any sort of signal analysis to  $x(n)$ , like, linear or nonlinear amplification, convolution, correlation, digital filtering (LFP, HPF, BPF, BSF) and Fourier spectral analysis. The result of this processing is the digital signal  $y(nT_s)$ , or simply  $y(n)$ .

**4D/A:** This signal is then converted into analogue using a digital to analogue converter (D/A).

# An Introduction To Digital Signal Processing With Mathcad

**E Durkheim**



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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**An Introduction To Digital Signal Processing With Mathcad**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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