
Chapter 1: Introduction to Signals

Problem 1.1:

i) $x[m,n,k]$ is a three dimensional (3D) DT signal. The independent variables are given by m , n , and k , while x is the dependent variable. Digital video is an example of a 3D DT signal of the form $x[m,n,k]$. The intensity x of the pixels in a frame is a function of the spatial coordinates (m,n) and frame number k .

ii) $f(x,y,z,t)$ is a four dimensional (4D) CT signal. The independent variables are given by x , y , z , and t , while f is the dependent variable. Atmospheric pressure is an example of a 4D DT signal of the form $f(x,y,z,t)$ if recorded continuously in time and space. The atmospheric pressure f is a function of the spatial coordinates (x,y,z) and time t .

Problem 1.2:

The CT signals can be plotted using the following MATLAB code. The CT signals are plotted in Fig. S1.2. The students should also try plotting them by hand.

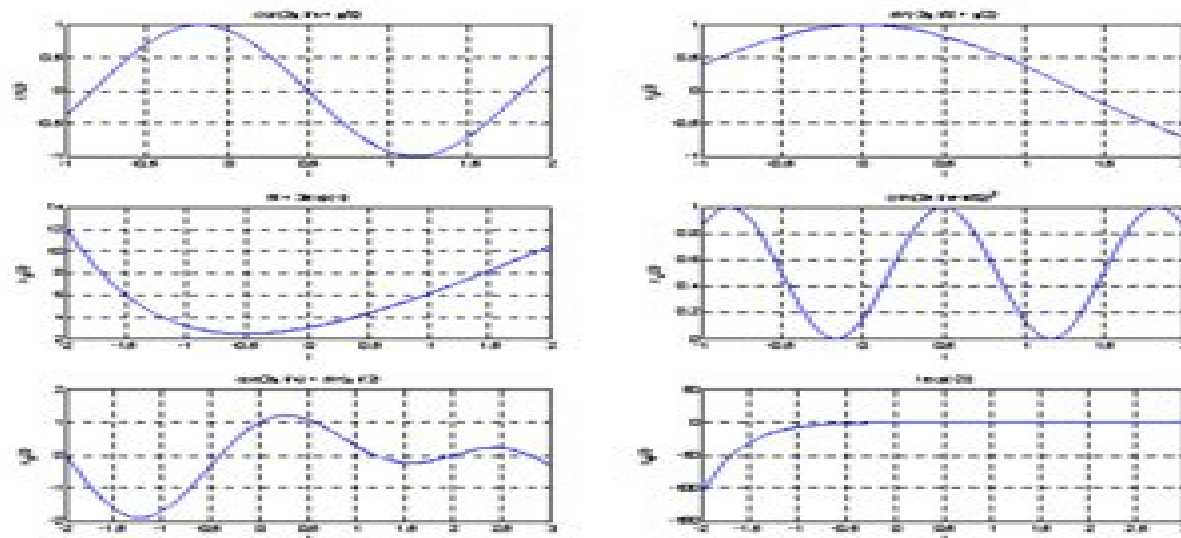


Fig S1.2: CT signals plotted for Problem 1.2.

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