Date |
$$X_c(\Omega)=0$$
 , $|\Omega| \ge 2\pi$. 10^4
 $\times [n] = \times_c(nT)$
 $y[n] = T \stackrel{n}{\le} \times [k]$

a) valur de T maximo para no aliasing?

For
$$\geq 2.10^4 = 20$$
 kHz $\Rightarrow T = \frac{1}{5} \leq \frac{1}{2.10^4} = \frac{50}{100} \text{ ms} = \frac{1}{5}$ $= \frac{1}{5}$

b) Determinar
$$h[n]$$

$$h[n] = y[n] \Big|_{x[n] = \delta[n]} h[n] = T. \Xi \delta[k] = T. u[n]$$

$$k = A$$

c) Dada una
$$\mathbb{Z}(e^{iw})$$
, wall et $y[n]$?

 $y[w] = T \cdot \mathbb{Z} \times [k] = T \cdot \mathbb{Z} \times [k]e^{j\circ k} = T \cdot \mathbb{Z}(e^{i\circ})$
 $k = -\infty$

Hemos victo

Per oto lado
$$\begin{cases}
\sqrt{[n]} = T.X(e^{i0}) \\
\sqrt{[n]} = X(e^{i0})
\end{cases}$$

$$\int_{-\infty}^{\infty} x_c(t) dt = \int_{-\infty}^{\infty} x_c(t) e^{-i2\pi i0t} dt = X_c(0)$$

Ciando se comple ésa ignaldad?

· En jeneral, wands no hay aliabil \$T < 50 ms

En particular, wands et valve en et origen no se ve afecta Scot ZclF) = 12clo 2 X (eiw) F5=Fm => Tmax=100 us