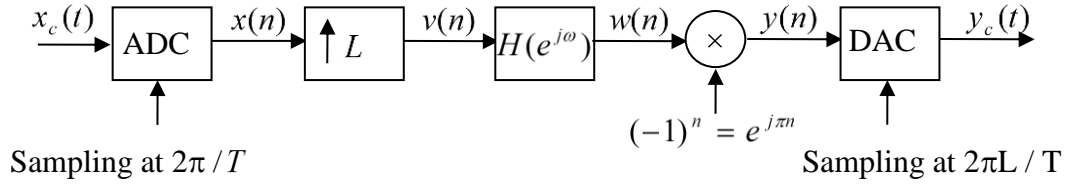


3. Consider the system shown in Figure 1, where

$$H(e^{j\omega}) = \begin{cases} 1, & |\omega| < \pi/L, \\ 0, & \pi/L < |\omega| \leq \pi. \end{cases}$$



Sketch  $Y_c(j\Omega)$  if  $X_c(j\Omega)$  is as shown in Figure 2.

