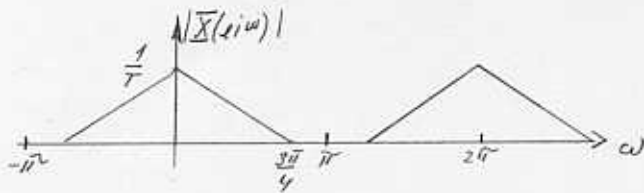


n_0 giver $x_H[n]$ en forsinkelse, der svarer til forsinkelsen i op- og nedsampling og interpolationsfilteret H_i .

$$H_{LP}(e^{j\omega}) = \begin{cases} 1 & \text{for } |\omega| \leq \frac{\pi}{2} \\ 0 & \text{for } \frac{\pi}{2} < |\omega| < \pi \end{cases}$$

$$H_{HP}(e^{j\omega}) = \begin{cases} 1 & \text{for } \frac{\pi}{2} < |\omega| < \pi \\ 0 & \text{for } |\omega| \leq \frac{\pi}{2} \end{cases}$$

$$H_i(e^{j\omega}) = \begin{cases} 2 & \text{for } |\omega| \leq \frac{\pi}{2} \\ 0 & \text{for } \frac{\pi}{2} < |\omega| < \pi \end{cases}$$



Skitsér $|X_L(e^{j\omega})|$, $|X_{Ld}(e^{j\omega})|$, $|X_{Le}(e^{j\omega})|$, $|X_{Li}(e^{j\omega})|$ og $|X_H(e^{j\omega})|$

