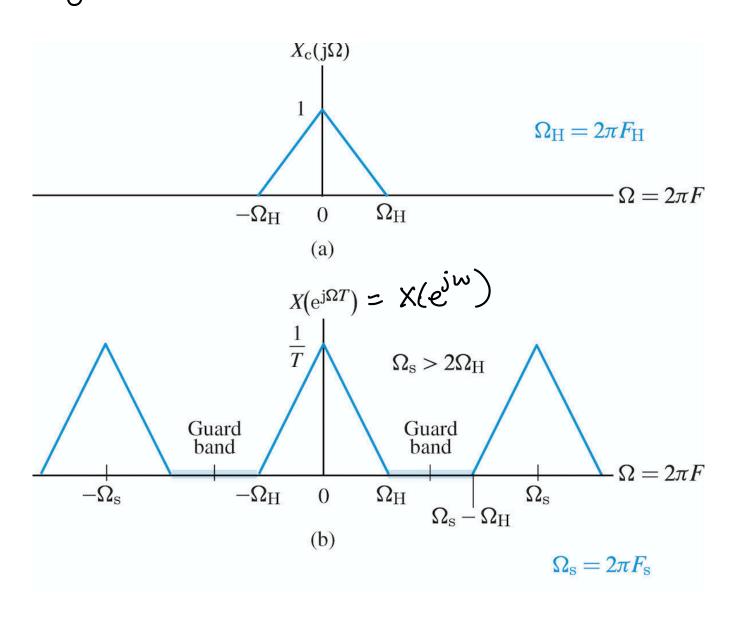
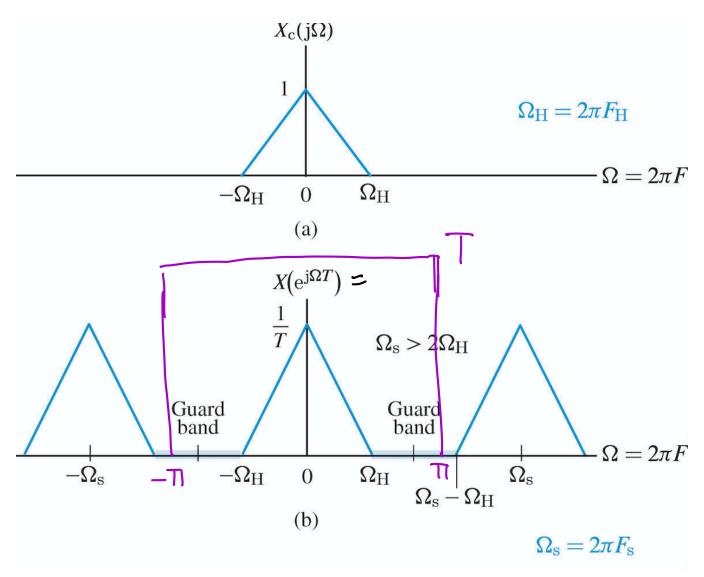
We know the relationship between the CTFT of X(t) and the DTFT of X[n], which is the discrete-time sample of X(t) obtained every T time



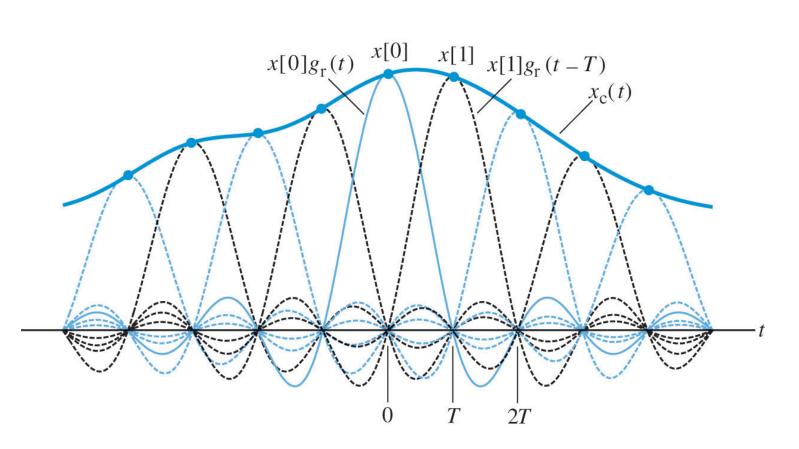
If we are given You (t)?

I(ejw), how con we

We can see that in the frequency domain, to recover the CTFT, $X_c(j\Omega)$



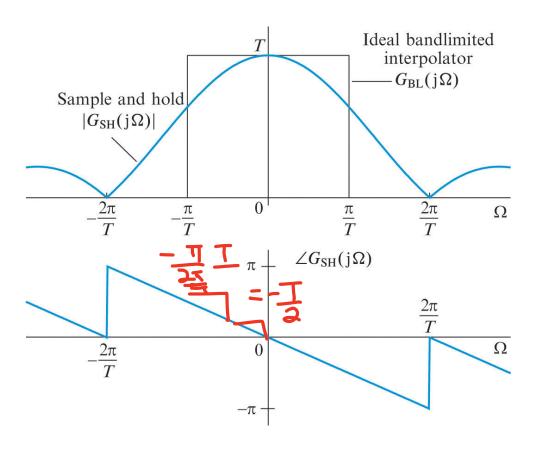
Ideal chatial to analog converter is on ideal lawpass filter with magnitude response = T in the passband Recall that in the time domain, the ideal law pass filter is the sinc function. In the time domain, we are interpolating X[n] by the Sinc function to exactly obtain $X_c(\epsilon)$

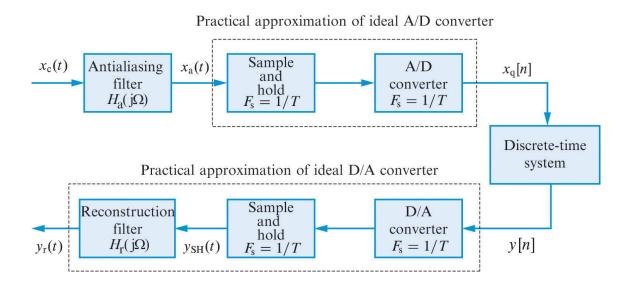


Reality alert! No such as ideal lawps so fifter Chap 6.5

Practical D+o A filter is a sample and hold

Ailter





(0.025)t) $F_s = \frac{1}{7} = 0.2 H_{Z}$

