

$$Y_{s}(\omega) = H_{s}(\omega) \times_{s}(\omega)$$

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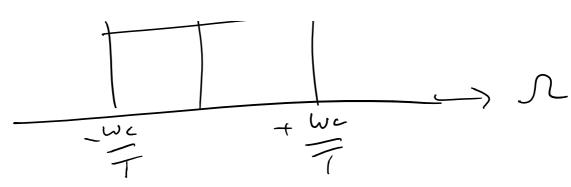
$$Y_{s}(\omega) = H_{s}(\omega) \times_{s}(\omega)$$

$$Y_{s}(\omega) = \frac{1}{L} \times_{s} \times_{s}(\omega)$$

$$X_{s}(\omega) = \frac{1}{L} \times_{s}($$

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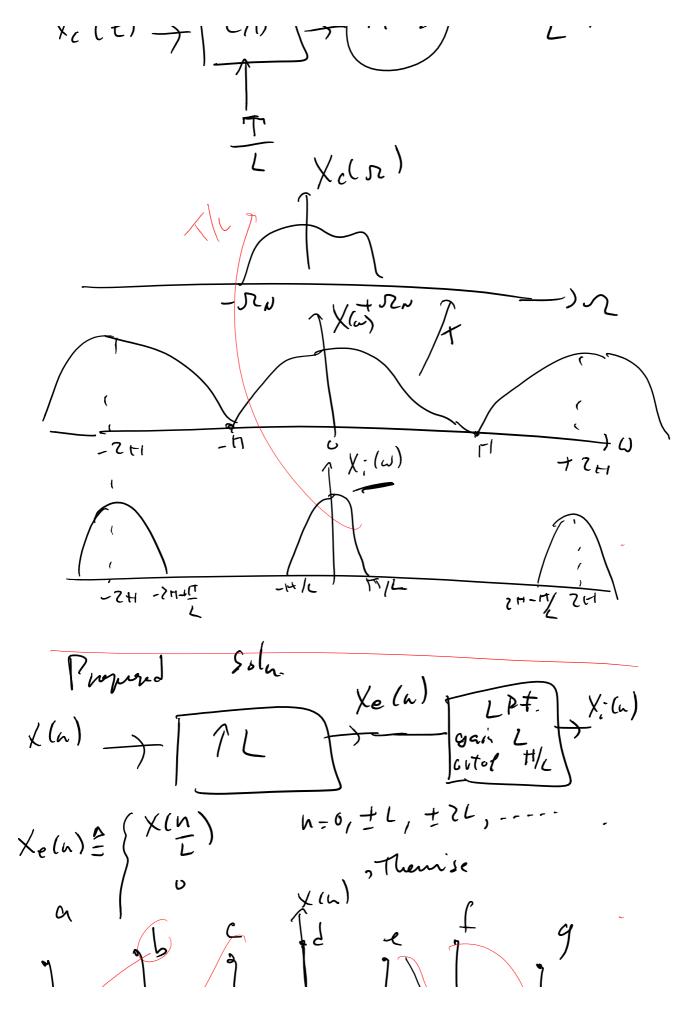
1217/ Trink Jett (V) = (H)(V1) $H_{2}(\omega) = \begin{cases} 1 & |\omega| < \omega_{c} \\ 0 & |\omega_{c}| < |\omega| < H \end{cases}$ Exays 7 Hz(w) He(set) Megr (2)= (Hz(2T)) /2(CH/T)
otherse Hest



Impulse Invaniance He (s) - Surprosa desired C.T. Liter D.T. processig y (n) /D/c Xc H) cliH(2) 121 (St e se velra 121CH/T Badlimited - Ma(nT) e Souler Hesp. (2)= { PIJON Ha (nT)= Hassie (n)= (Halw) = Hassind (= Thurst be chow so And HolesiA = 6 Can show that The jupile response of hassed (t) and hin) are related hy(n) = [hassied (t)]t=nT as follows M. 1/W 271K)) H116) - -

Example 7:
$$h_{desint}$$
 (t) = $A = u(t)$
 $H_{c}(s) = \frac{A}{5.5.0}$
 $Apply Duple Invania: S.Th

 $h(u) = T[h(t)]_{t=nT} = A Te u(n)$
 $\Rightarrow H(2) = AT$
 $1-e^{-\frac{5}{2}}$
 $1-e^{-\frac{5}{2}}$$



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