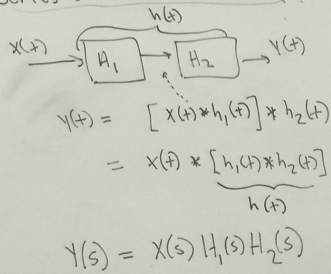


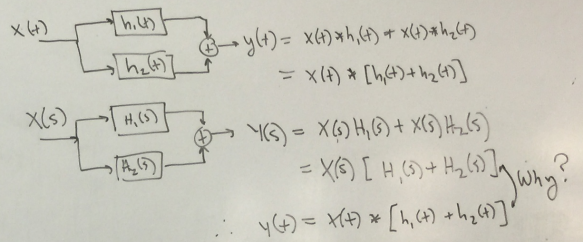
Convolution:

$$\begin{aligned}
 x(t) &\xrightarrow{h(t)} y(t) = x(t) * h(t) \\
 X(s) & \quad H(s) = \int_{-\infty}^{\infty} x(t) h(t+\tau) d\tau \\
 Y(s) &= H(s) X(s) \\
 Y(\omega) &= H(\omega) X(\omega) \\
 Y(z) &= H(z) X(z)
 \end{aligned}$$

Series or Cascade Connections



Parallel:



Feedback:

