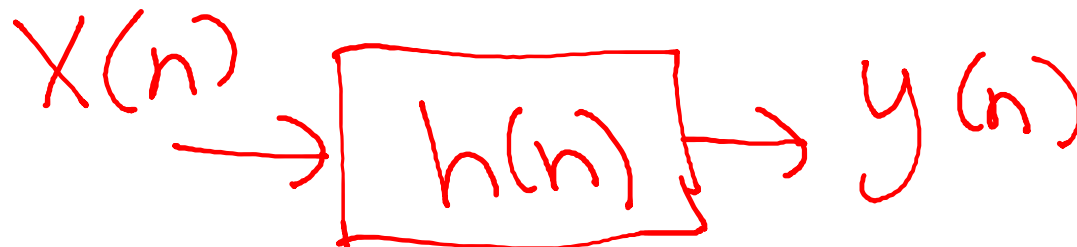
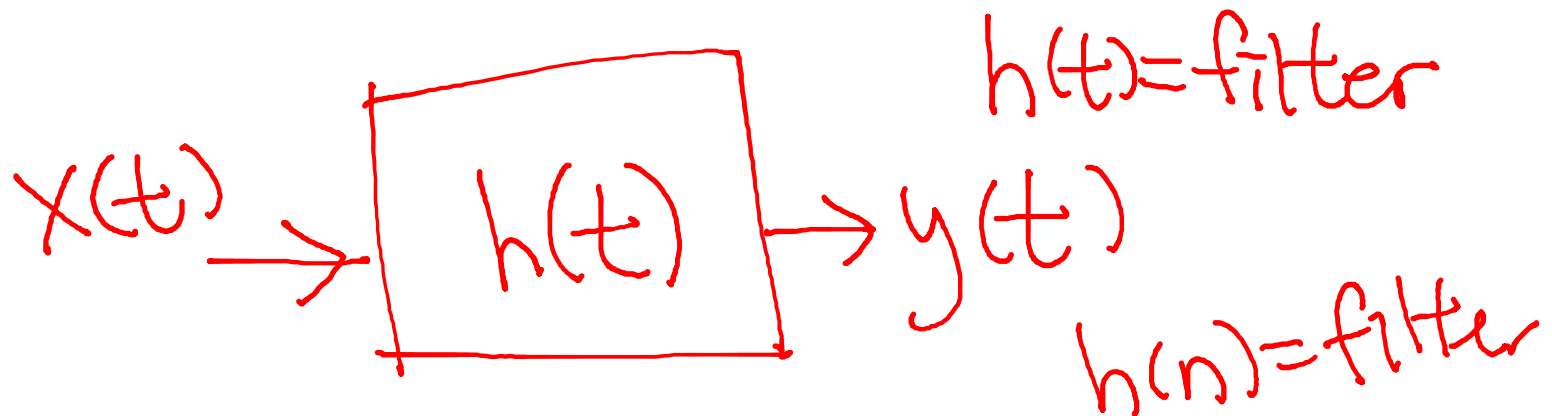


# Linear Time Invariant Filters



# LTI Systems

- Linear time-invariant (LTI) systems (or linear filters) are most ubiquitous
- In most simulations, continuous systems (Laplace or s-domain) are converted into discrete systems (z-domain)
- **Outline**
  - Analogue filters
  - Converting analogue filters to digital filters
  - Digital IIR filters
  - FIR filters (windowing)
  - Simulation for FIR and IIR filters

*infinite impulse response*  
*finite impulse response*

