

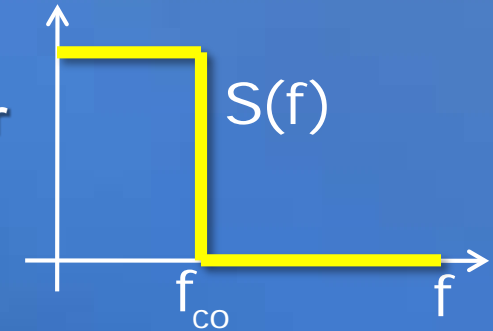
Band Pass Filter Example

Types of Filters

Low Pass filter

- Passes frequencies below f_{co}
 - f_{co} = cutoff frequency
- Emphasizes "bass"

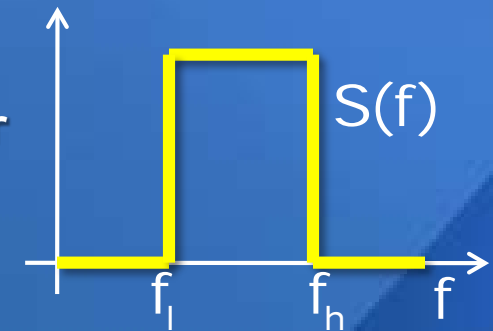
Lowpass Filter



Band Pass filter

- Passes frequencies between f_l and f_h
 - f_l = low frequency cutoff
 - f_h = high frequency cutoff
- Emphasizes "midrange"

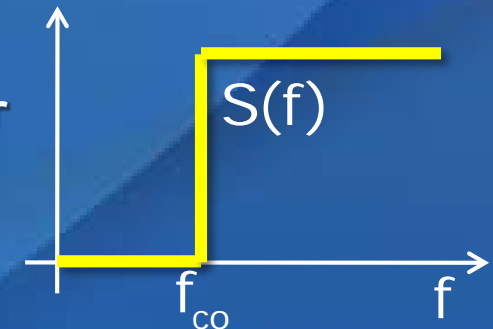
Bandpass Filter



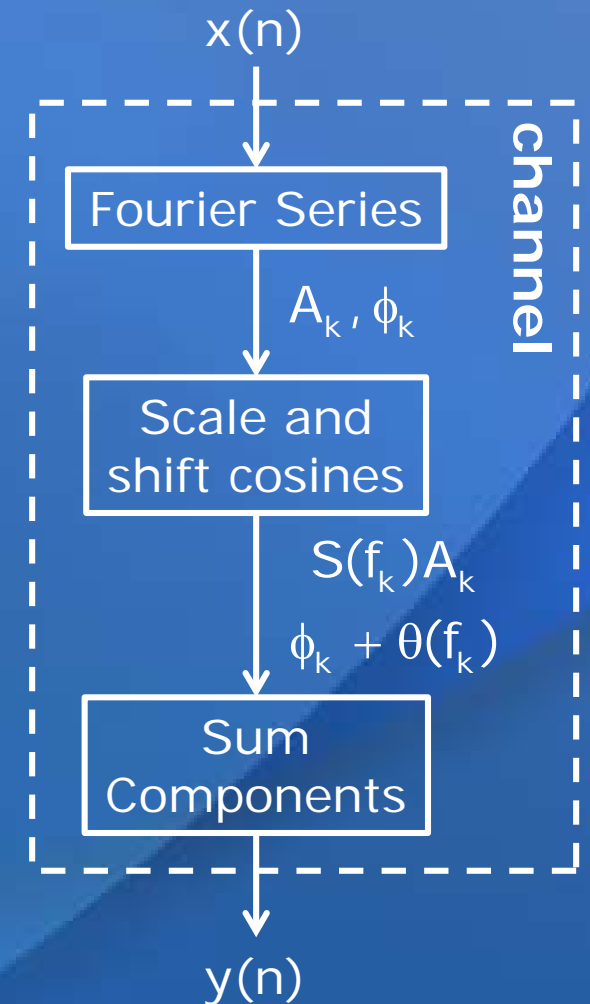
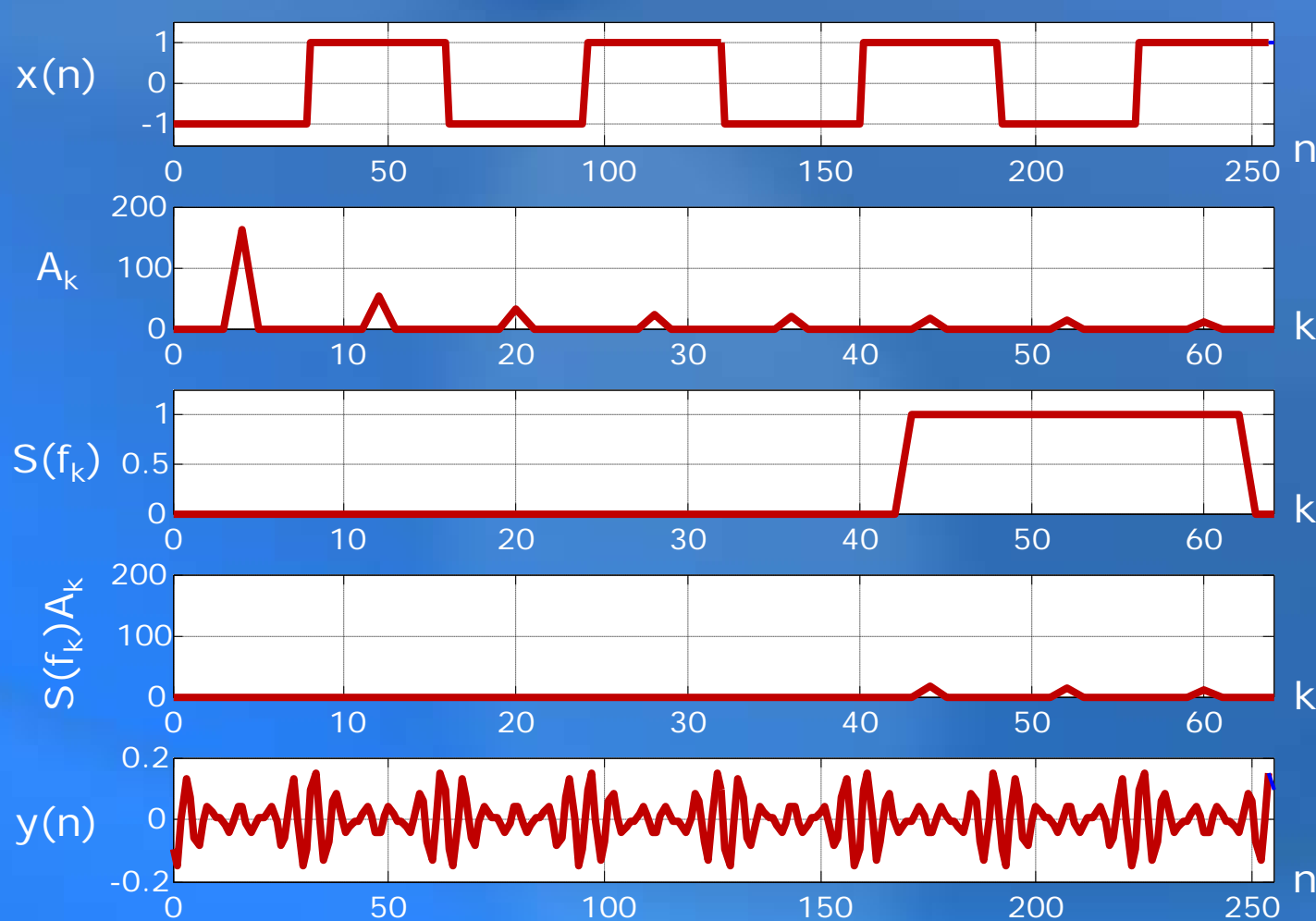
High Pass filter

- Passes frequencies above f_{co}
- Emphasizes "treble"

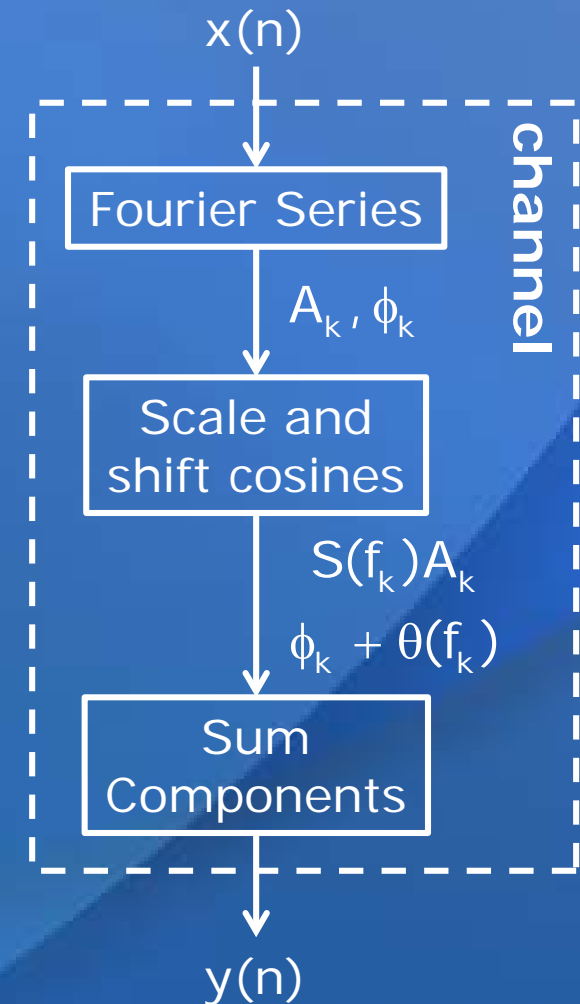
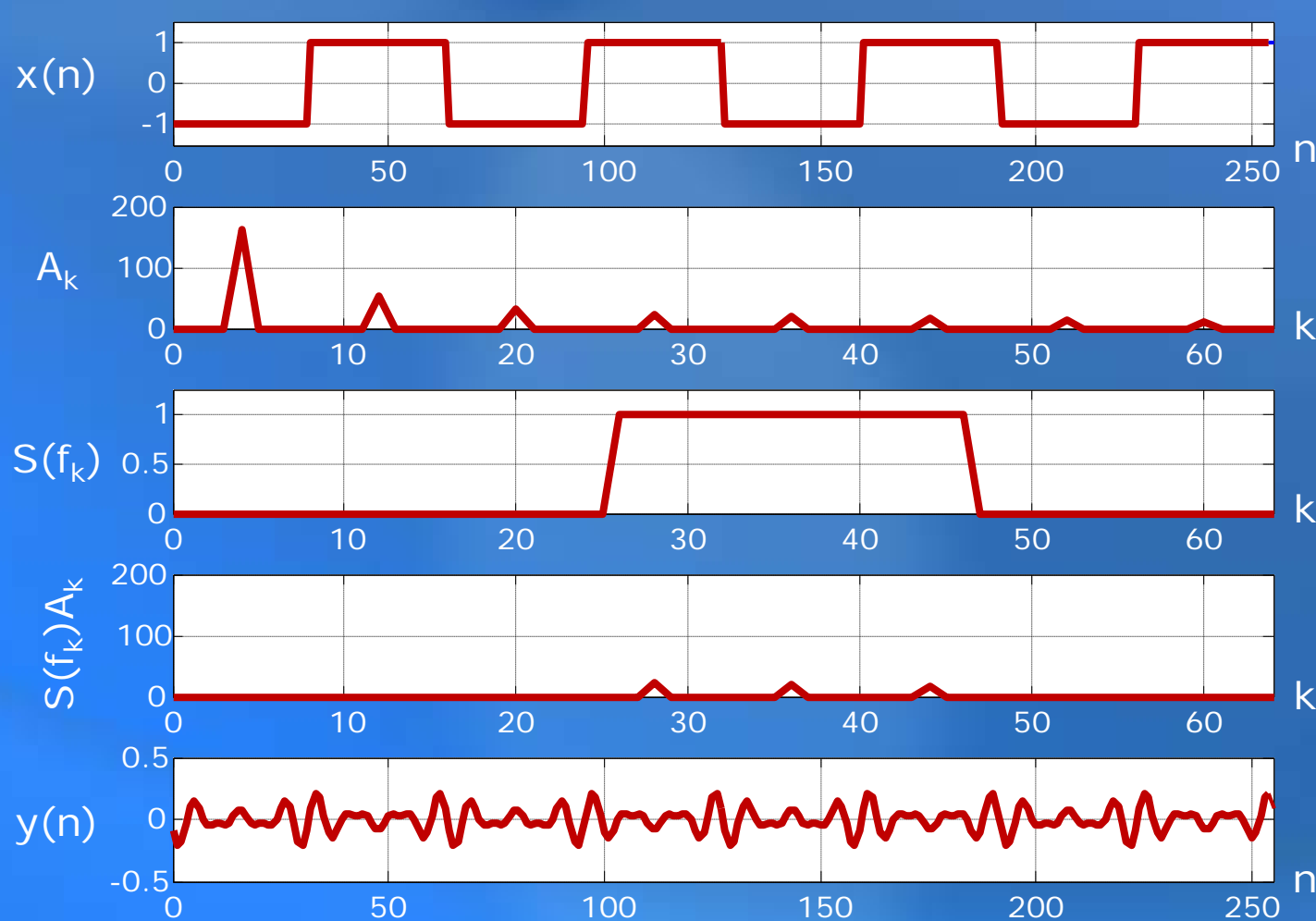
Highpass Filter



Band Pass Filter $f_c = 52/256$



Band Pass Filter $f_c = 36/256$



Band Pass Filter $f_c = 20/256$

