

Low Pass Filter Example

Types of Filters

Low Pass filter

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

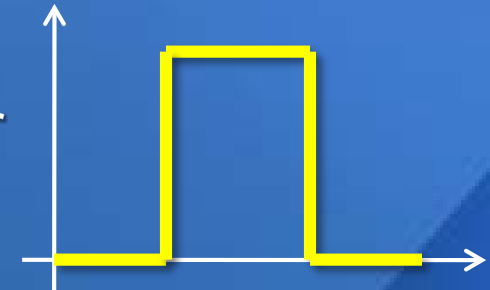
Lowpass Filter



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



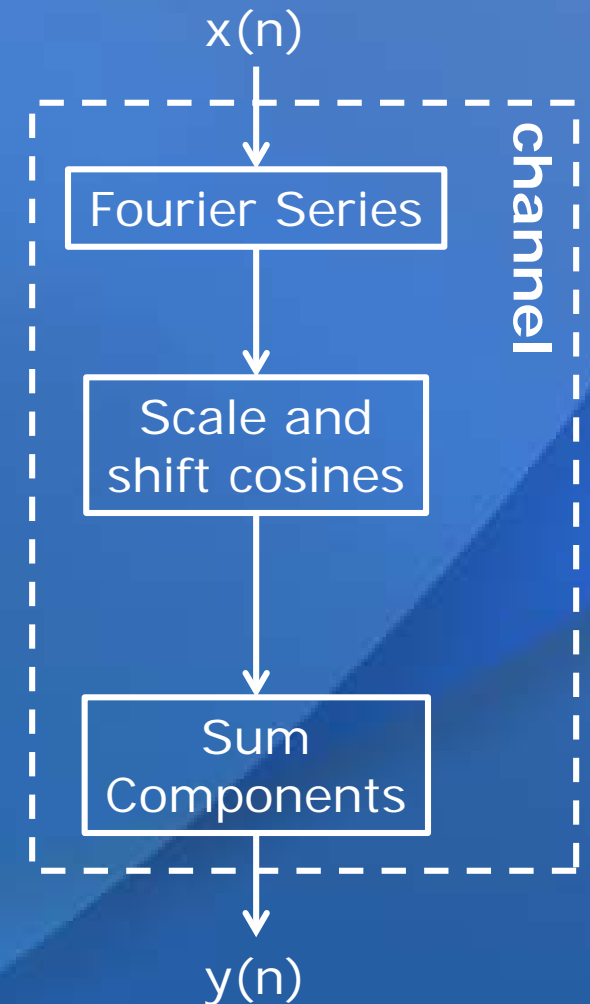
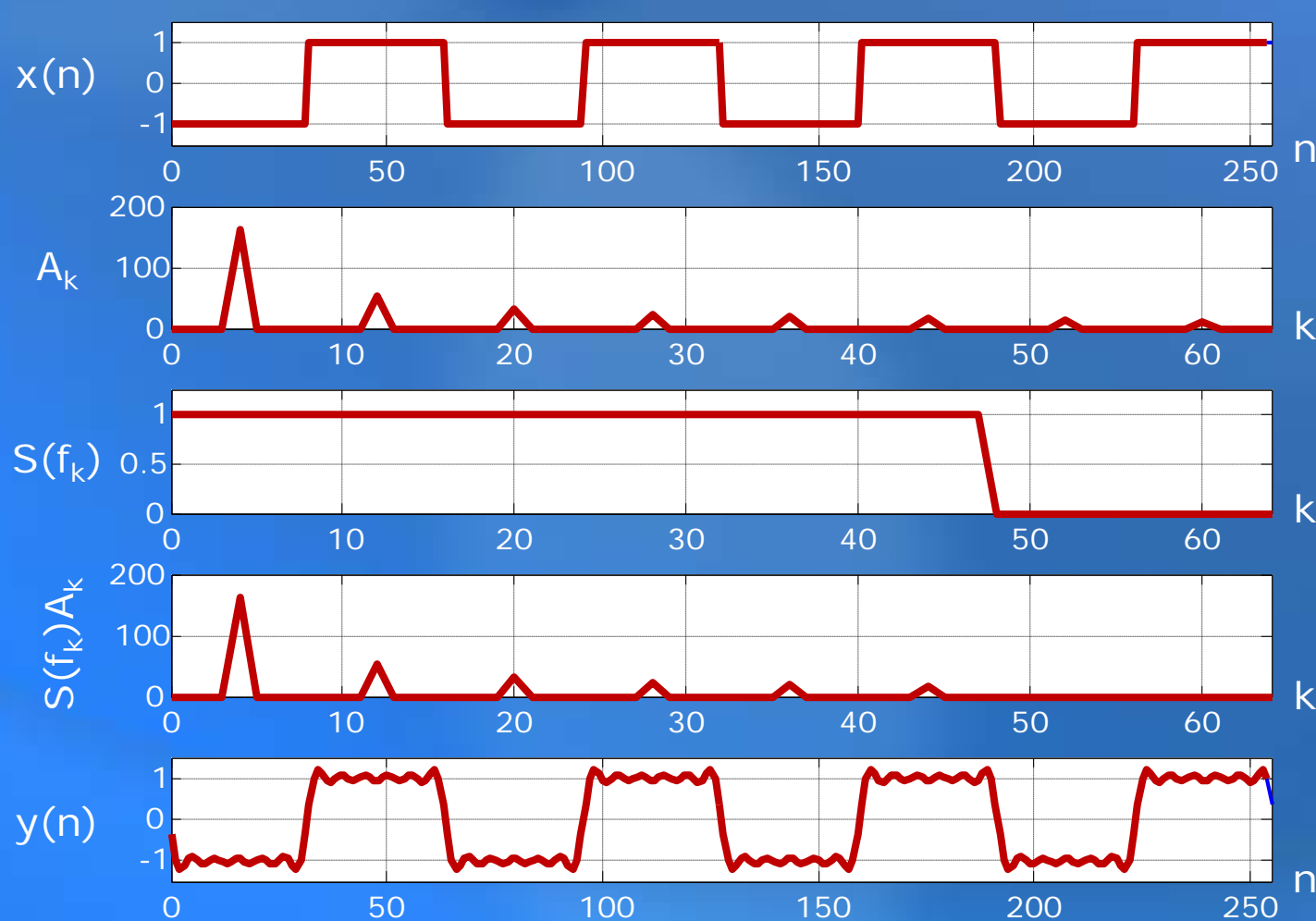
High Pass filter

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

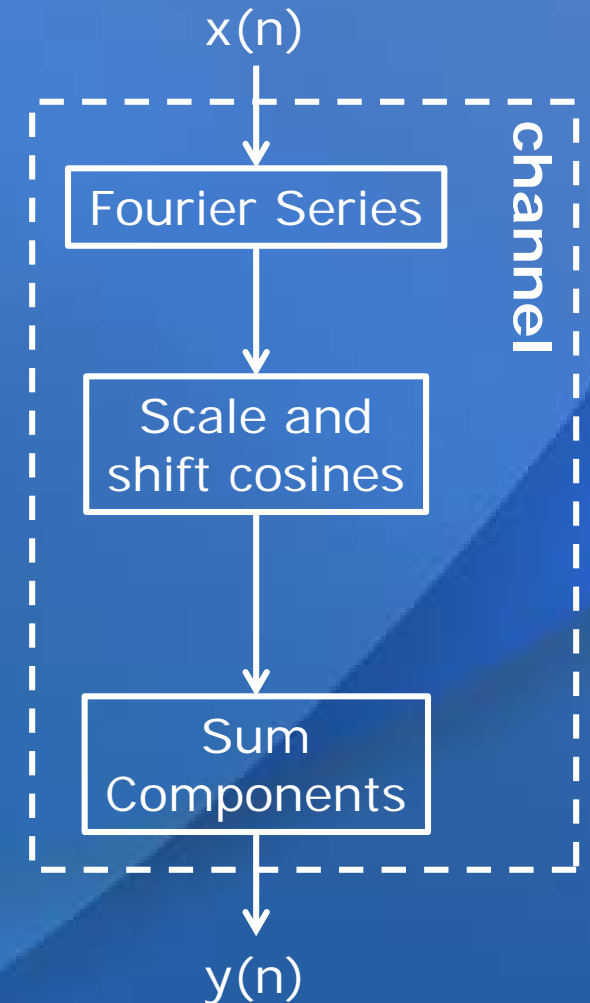
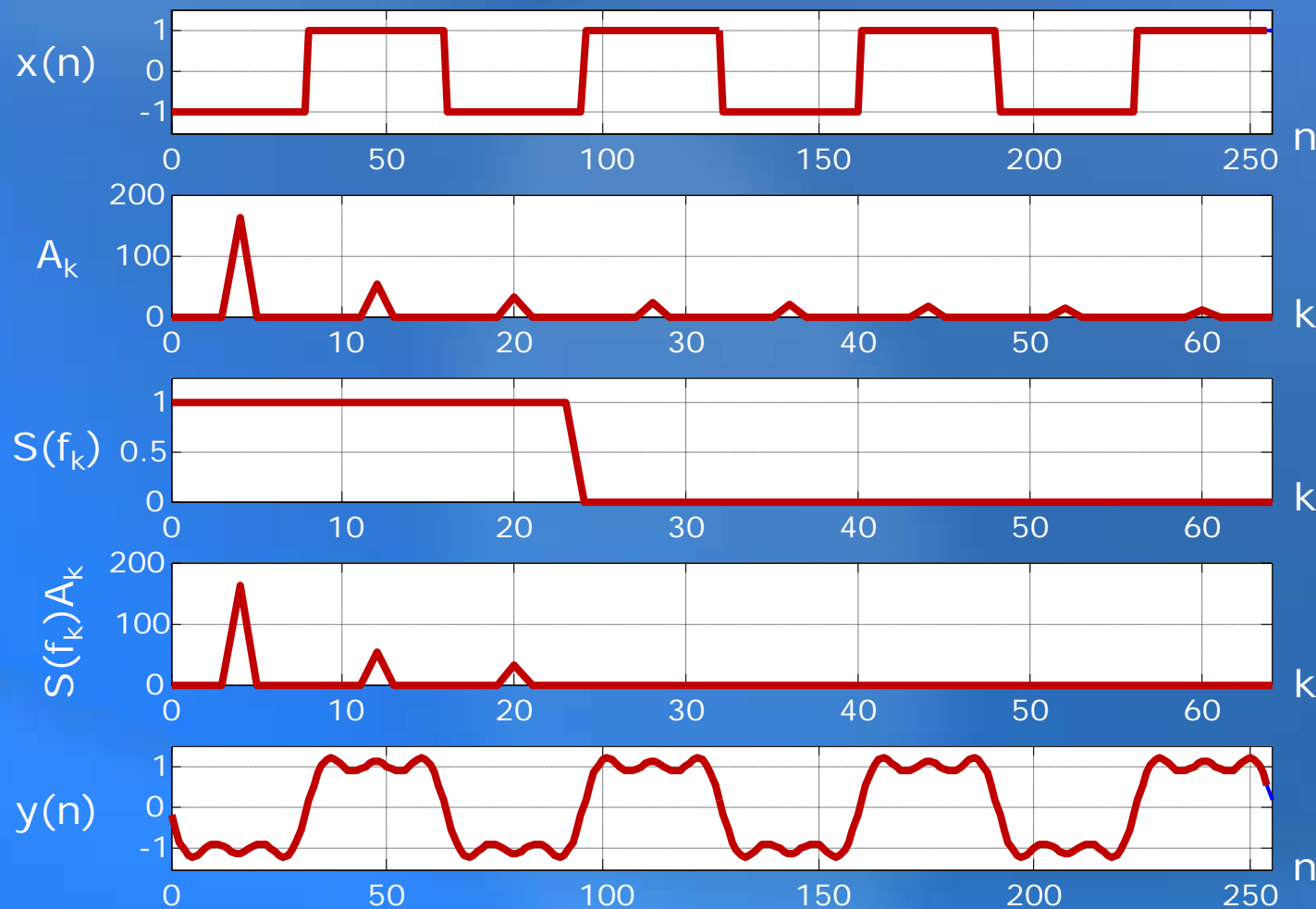
Highpass Filter



Low Pass Filter $f_{co} = 48/256$



Low Pass Filter $f_{co} = 24/256$



Low Pass Filter $f_{co} = 8/256$

