



$n_{tf} = \text{synthesize NTF}(\dots)$

$[V, x_{il}, x_{max}, y] = \text{simulateDSM}(\dots)$

$[SNR, Au] = \text{simulateSNR}(\dots)$

$\text{spec} = \text{fft}(\dots)$

$\text{SNR} = \text{calculateSNR}(\text{spec}, \dots)$

$[a, g, b, c] = \text{realizeNTF}(n_{tf}, \text{form})$

$\text{ABCD} = \text{stuffABCD}(\dots)$

$[\text{ABCDs}, u_{max}] = \text{scaleABCD}(\dots)$

$[a, g, b, c] = \text{mapABCD}(\text{ABCDs}, \text{form})$

- Finite Gain, BW & SR
- cap mismatch
- KT/C noise

Decimation filter
 = design HBF, simulate HBF