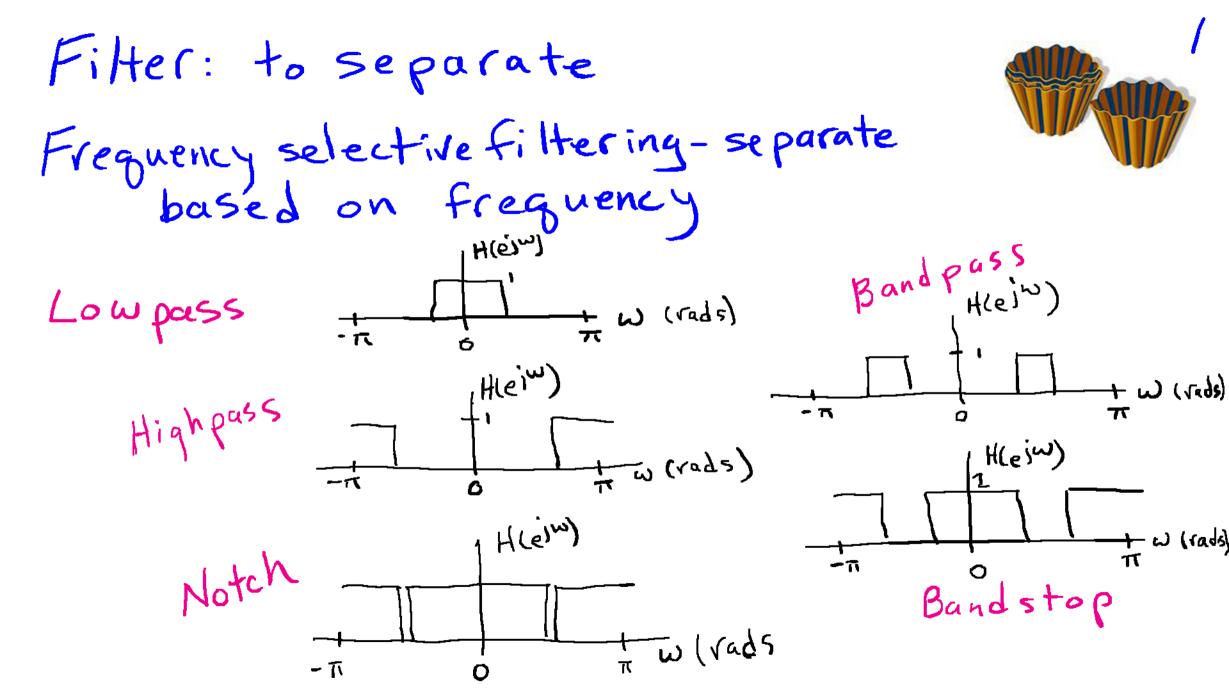
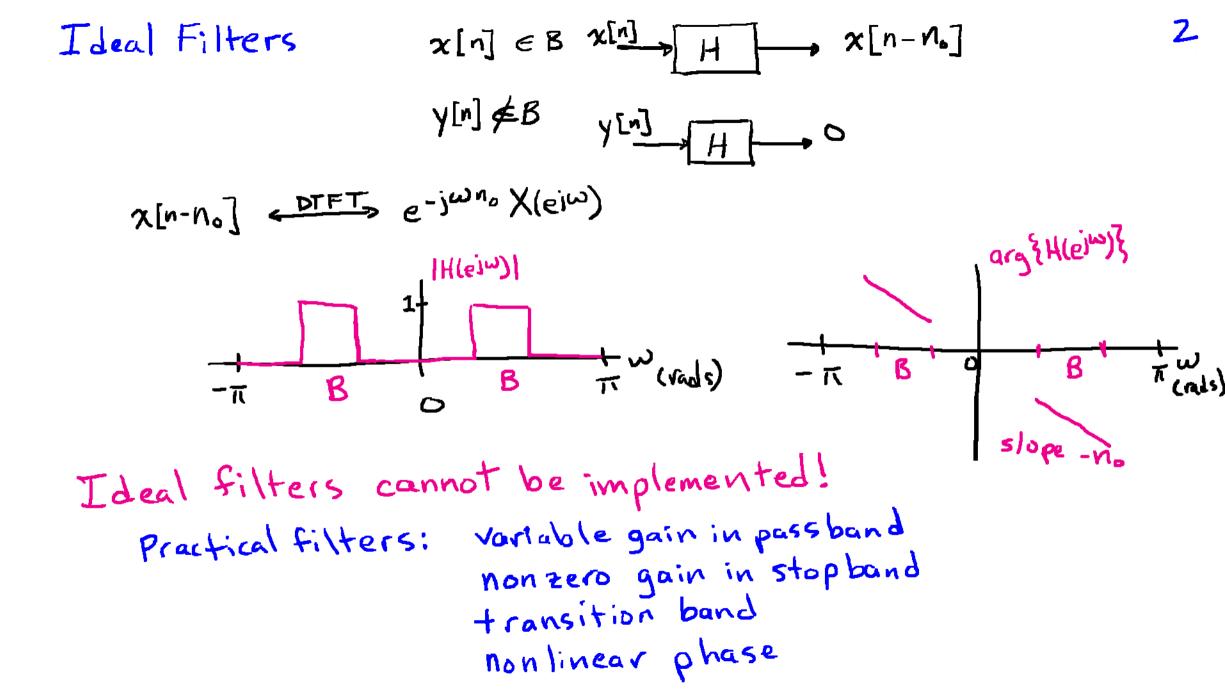
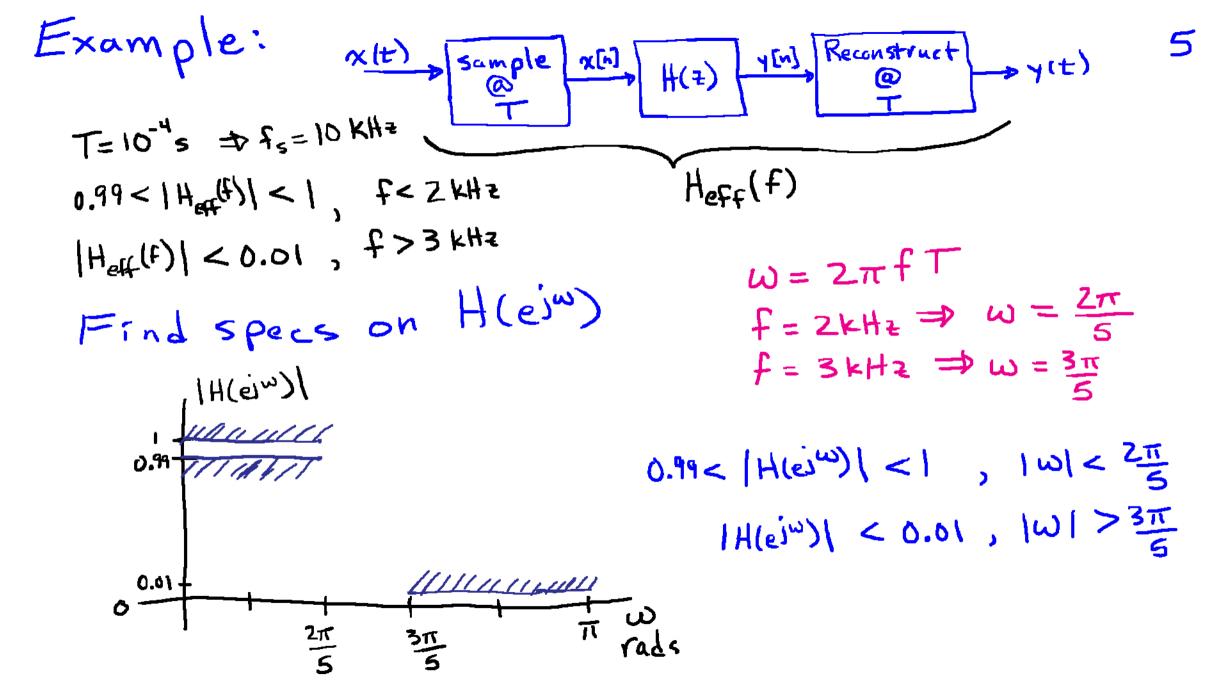
Introduction to Frequency Selective Filtering





Filter gain specifications: tolerance diagram 1H(ejw)1 passband transition band w (rads) ω_s, ω_{p_2} W_e $|H(e^{j\omega})| < \delta_s$, $|\omega| < \omega_{s_1}$, $\omega_{s_2} < |\omega| < \pi$ Stop $1-\delta_{p_2} < |H(e^{j\omega})| < 1+\delta_{p_1}, \quad \omega_{p_1} < |\omega| < \omega_{p_2}$ pass "don't care", $\omega_{s_1} < |\omega| < \omega_{p_1}$, $\omega_{p_2} < |\omega| < \omega_{s_2}$

Filter phase specifications: 1) Linear - distortionless 2) Don't care 3) Zero-phase - noncausal filtering of stored signals



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