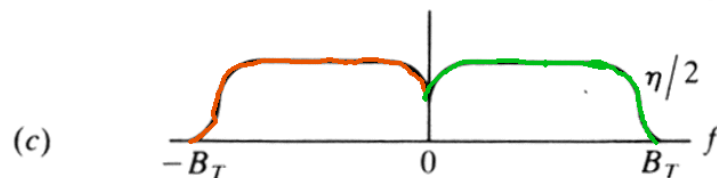
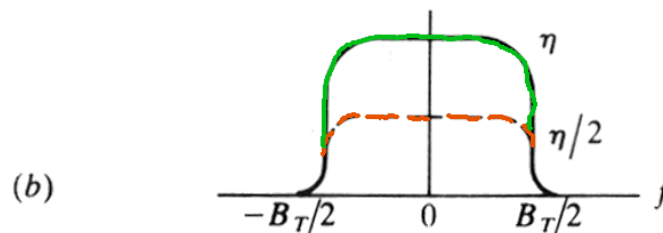
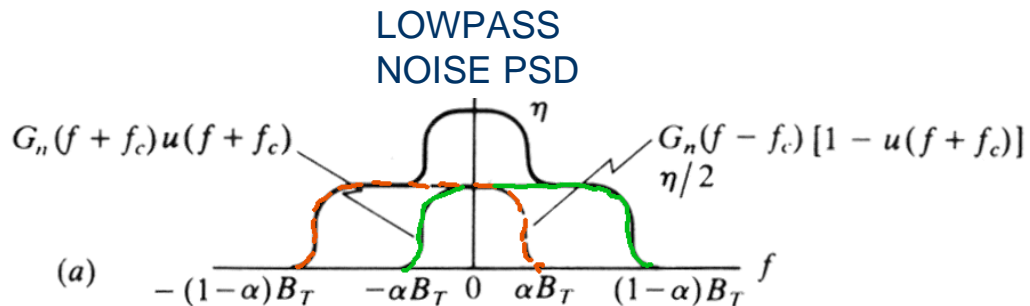
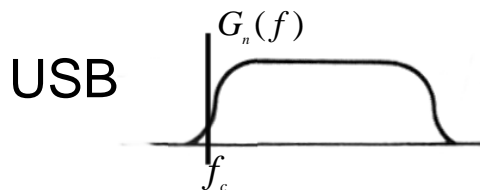
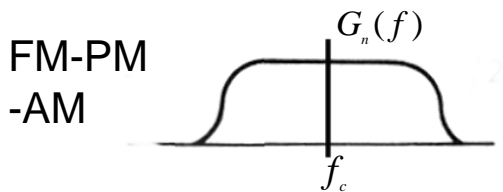
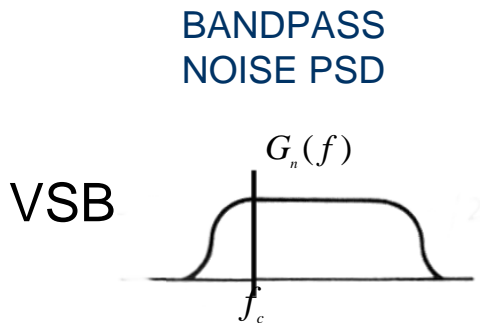
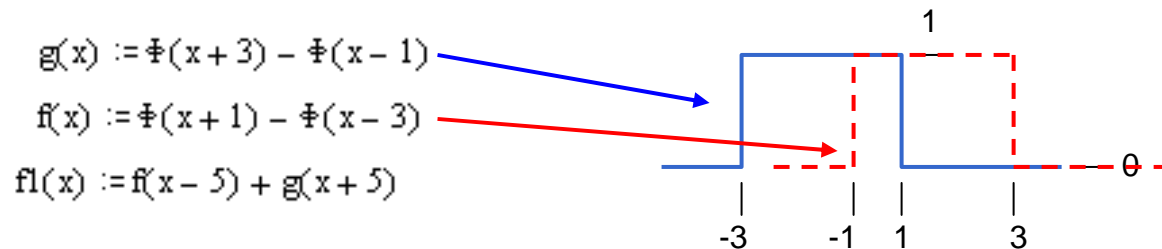


Conversion of bandpass noise to lowpass noise

- Lowpass noise PSD is formed by down-converted bandpass noise PSD that sums up noncoherently (at the receiver in BP-LP conversion).

$$G_{ni}(f) = G_{nq}(f) = G_n(f + f_c)u(f + f_c) + G_n(f - f_c)[1 - u(f - f_c)]$$





$n := -10, -9.. 10$

+

$$f2(x) := f1(x+5) \cdot \Phi(x+5)$$

$$f3(x) := f1(x-5) \cdot (1 - \Phi(x-5))$$

I-Q noise components
for VSB by Mathcad[®]

