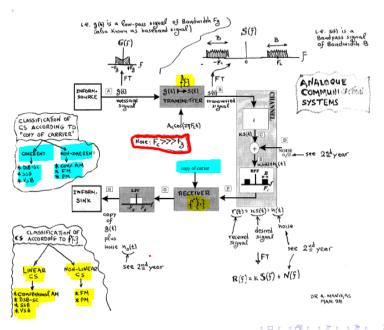
Study Group

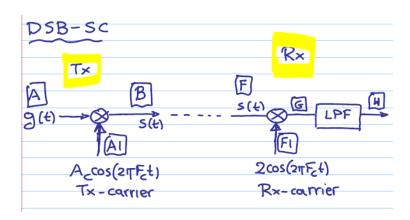
Professor A. Manikas

Imperial College London

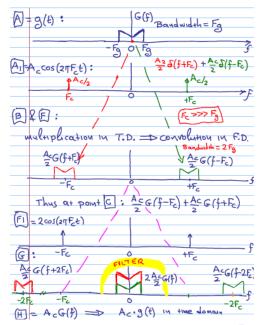
Comms-1

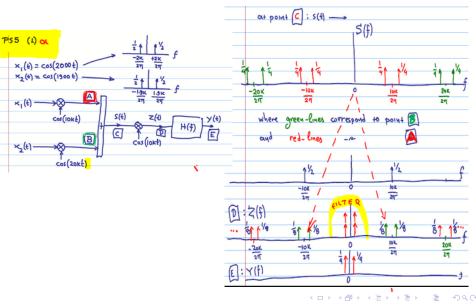






DSB-SC in the Fregy. Domain



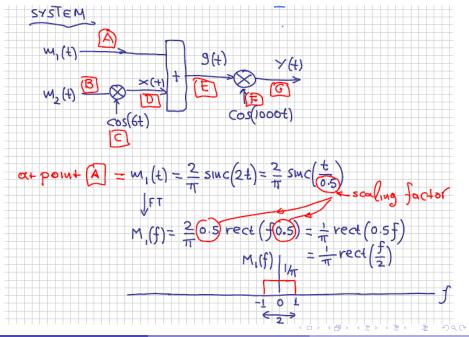


75.5 [2] a,b

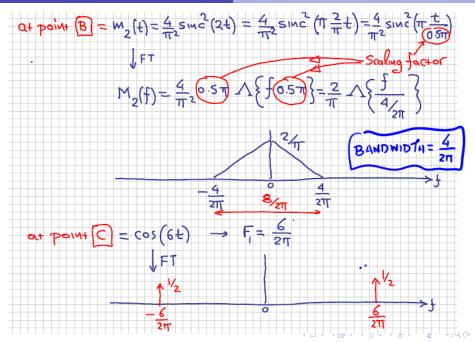
$$W_1(t) = \frac{2}{\pi} SINC(2t) = \frac{2}{\pi} SINC(\frac{t}{0.5})$$

$$M_2(t) = \frac{4}{\pi^2} Siuc^2(2t) = \frac{4}{\pi^2} Siuc^2(\frac{t}{6})$$

$$\gamma(t) = (m, (t) + \times (t)) \cos(1000t)$$
wessage $g(t)$



The above uses sinc (+) = sin T+ standard definition However in the Lectures the definition of a sinc is: SINC(Tt) & SINTE This definition will be used here. m, (+) = 2 SINC (2+) = 2 SINC (1 2+)=2 SINC (1 = 5.5) $M_1(f) = \frac{2}{10.510} \text{ rect} (f(0.510) = \text{rect})$



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