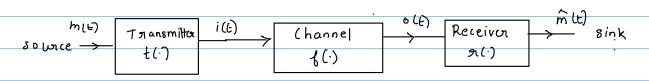
Lecture 7

Review



Design t() and a()

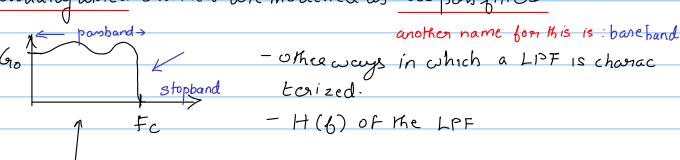
such that e(m(E), h(E)) ≤ E.

given b() modelled as a LTI filter (h(b))

an impostant idea here is that to and so one used to nullify the effect of the channel (at least in own warent understanding). on counteract

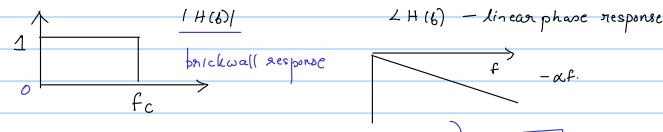
$$g(f(t(m(t)))) \approx m(t)$$
other model-bandpars
papsbage

Usually wised channels are modelled as low poss fillers

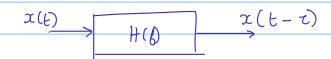


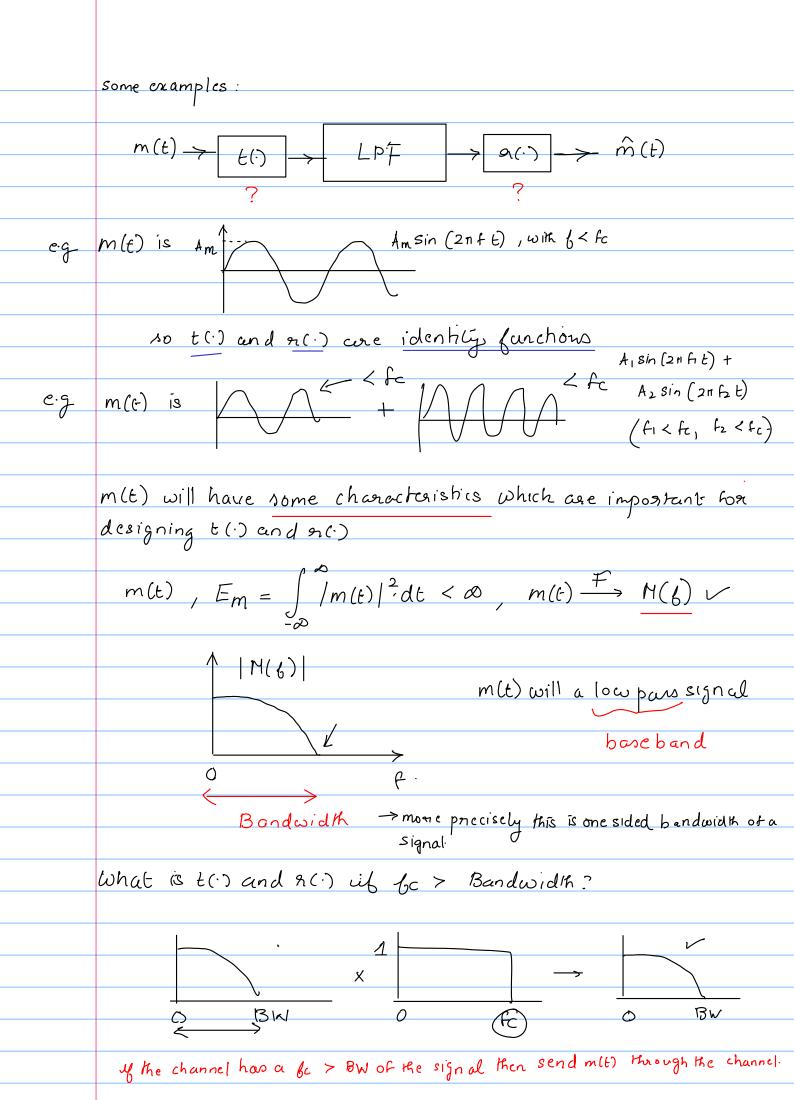
acheal low pars fillers

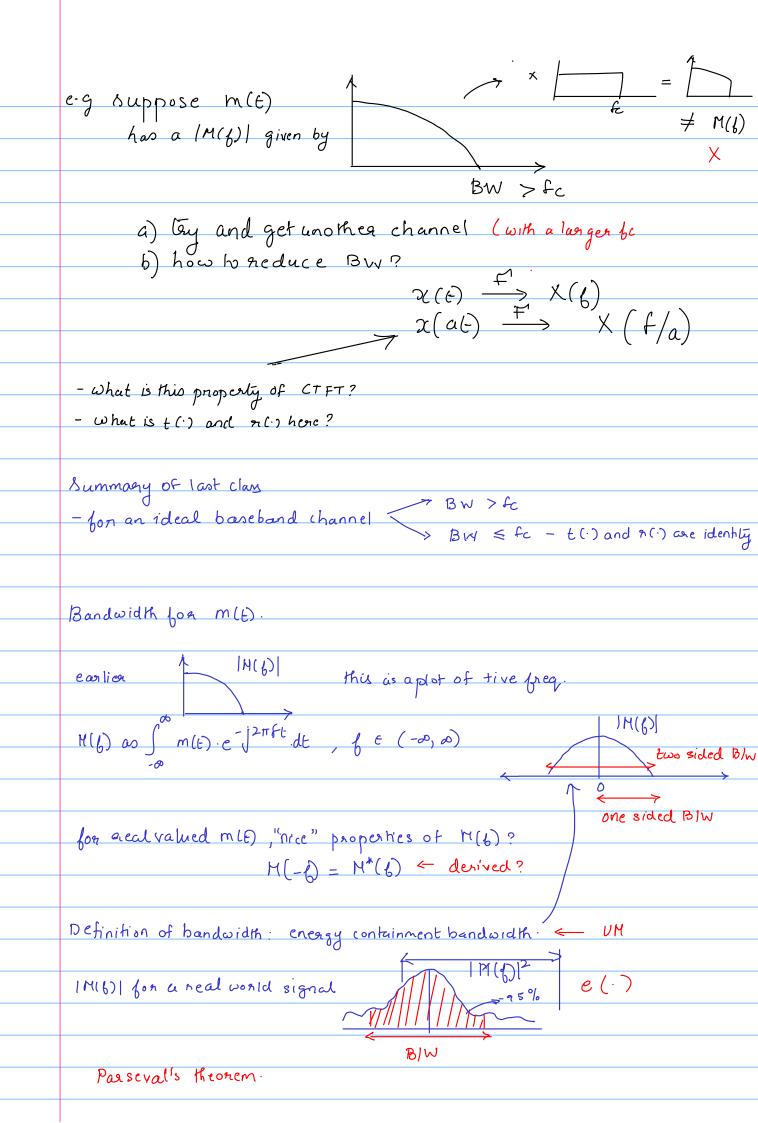
low pass We replace this by an ideal filter to study how to design t() and n() (> we are studying how to design the and not) for baseband channels)



Question? Why is linear phase response important?







a similar définition for LPF models for channels. 1H(8) 2tc = 2 sided B/W of our channel. fon baseband channels (which are modelled as ideal LPFs). t() and r() are decided just by signal (m(t)) bandwidth and channel bandwidth. A slightly more complicated design problem. 14(6) 2 sided B/W suppose M(E) has a Isided Blw < 2 sided Blw of the channel distanted reasion of m(6). m(E) 4(6) equalizer-H(6)-1 as(de: audio equalizer 世中日