

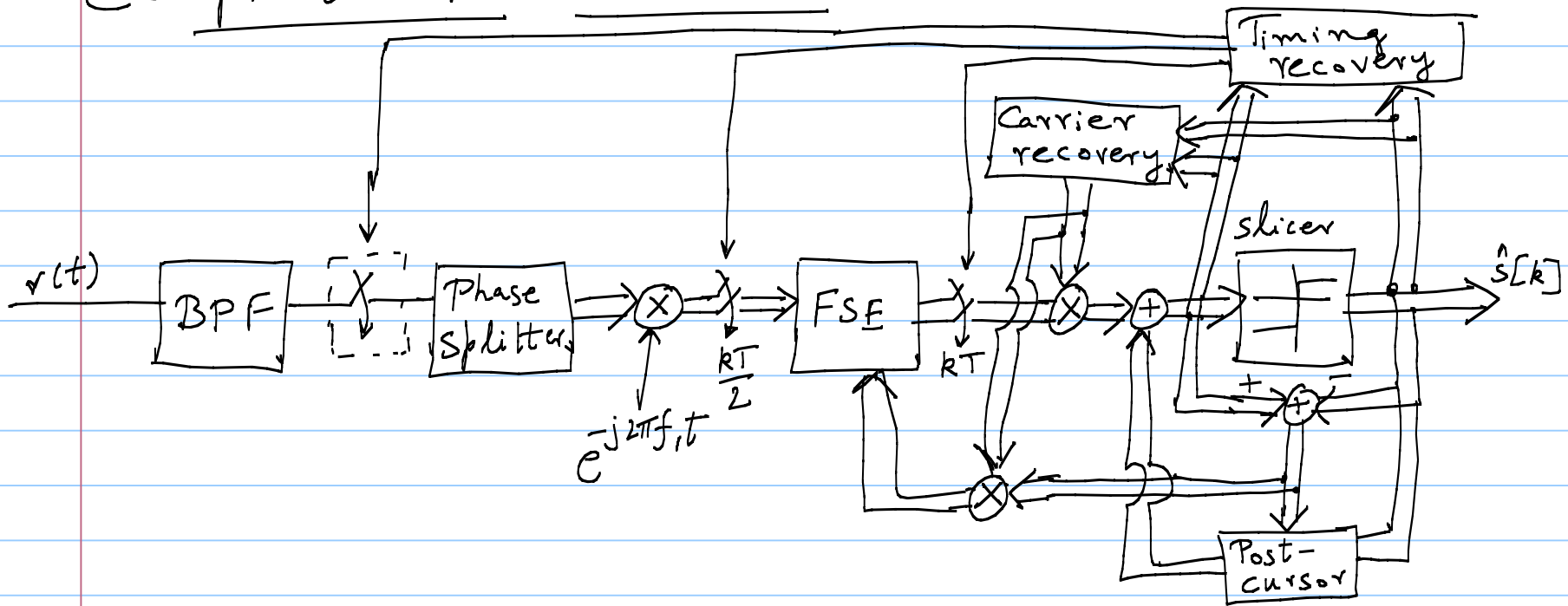
Lecture 36

Note Title

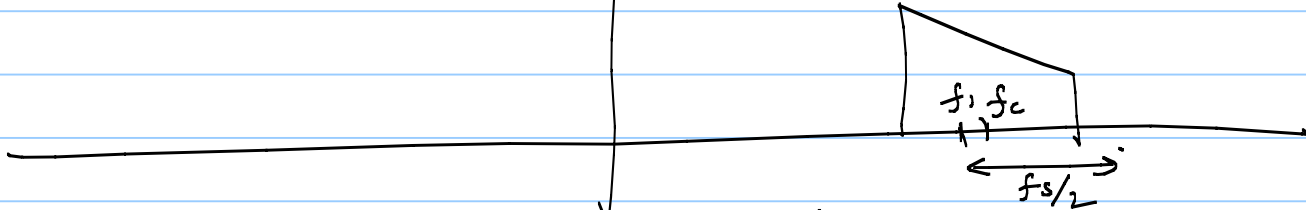
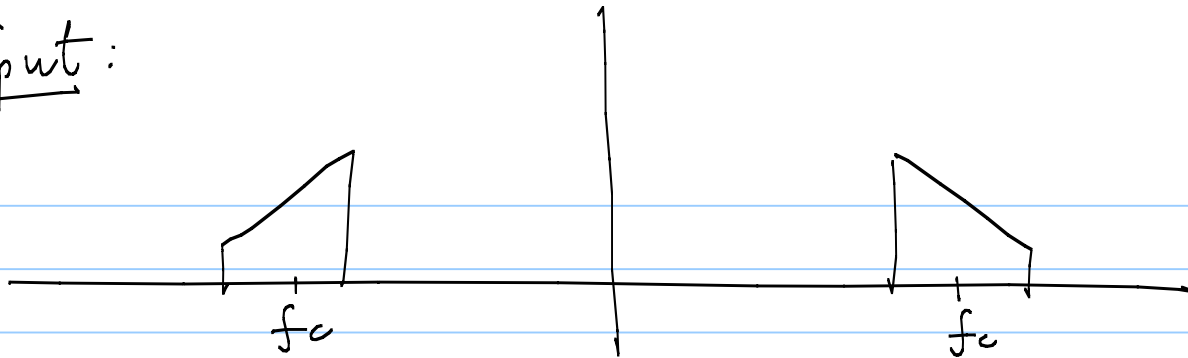
10/16/2008

→ FSE & passband equalizers.

Complete PAM receivers



Input:

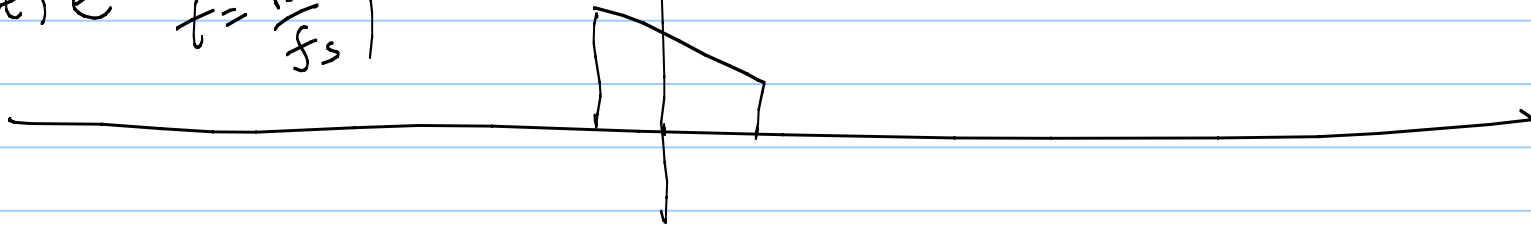


$f_s : f_1 / \text{integer}$
 f_s

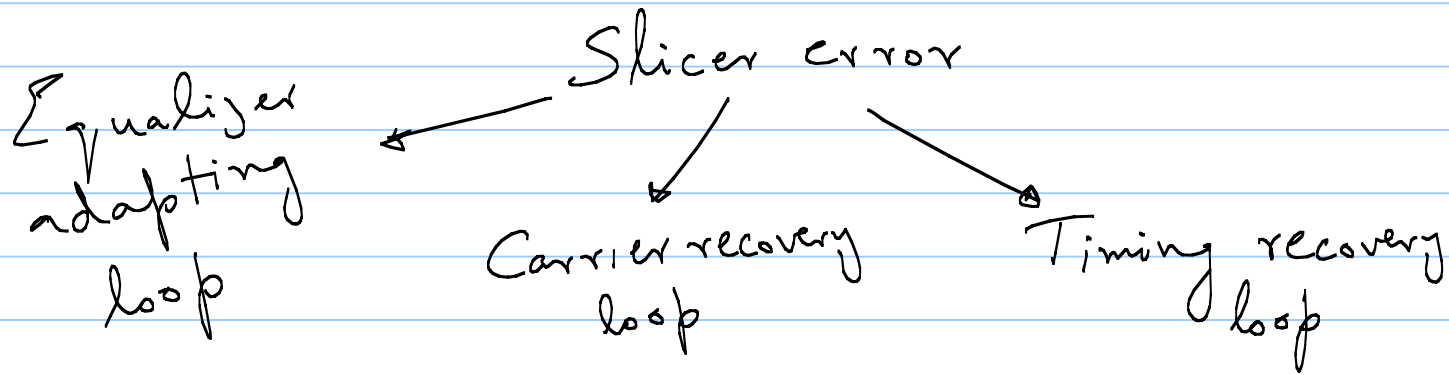
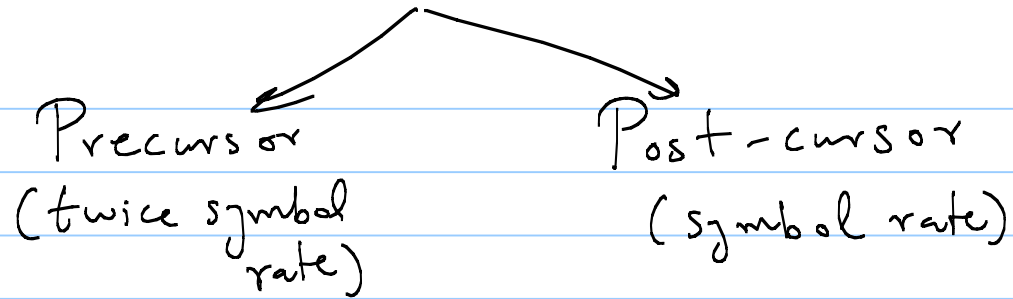
$$(x(t) e^{j2\pi f_1 t} \quad t = \frac{n}{f_s})$$

$$\otimes e^{-j2\pi f_1 t}$$

(preliminary demodulation)

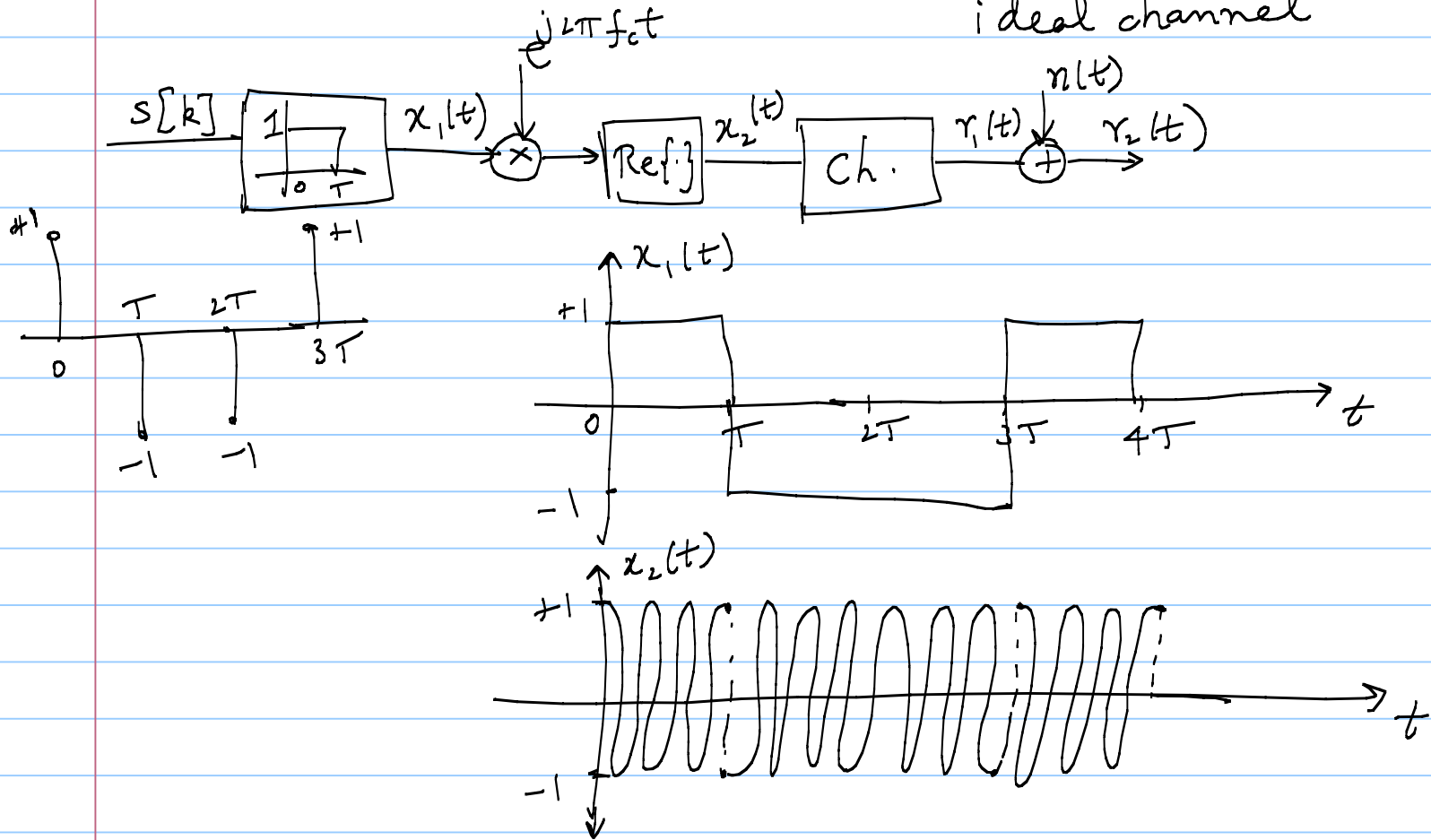


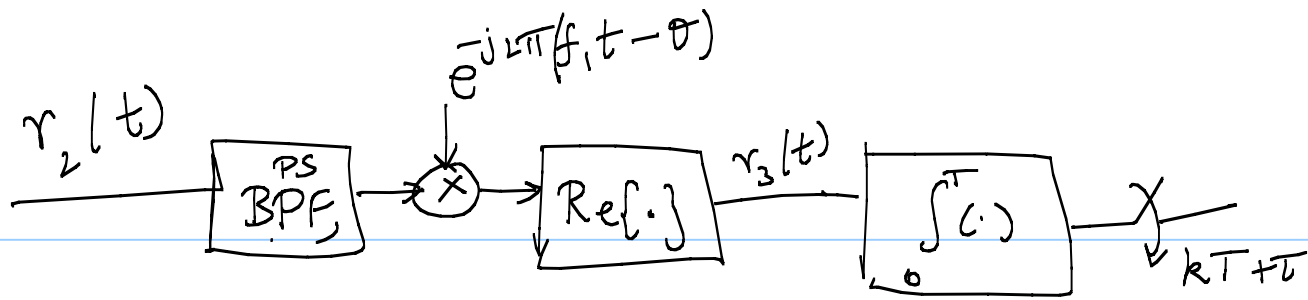
MMSE-DFE (FSE)



Review:

I BPSK with rectangular pulse shape, ideal channel





$$r_3(t) = x_1(t) \cos(2\pi \Delta f t + \theta) + n'(t)$$

