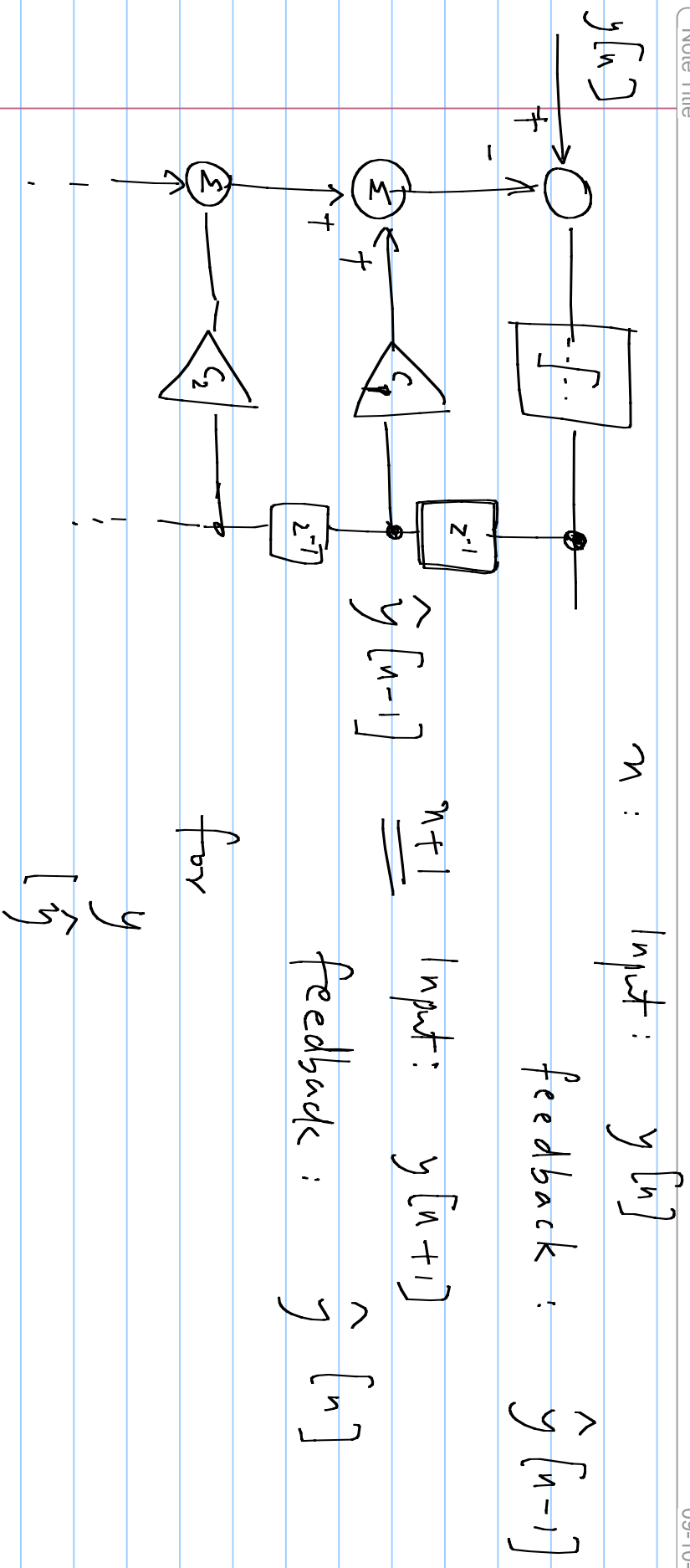


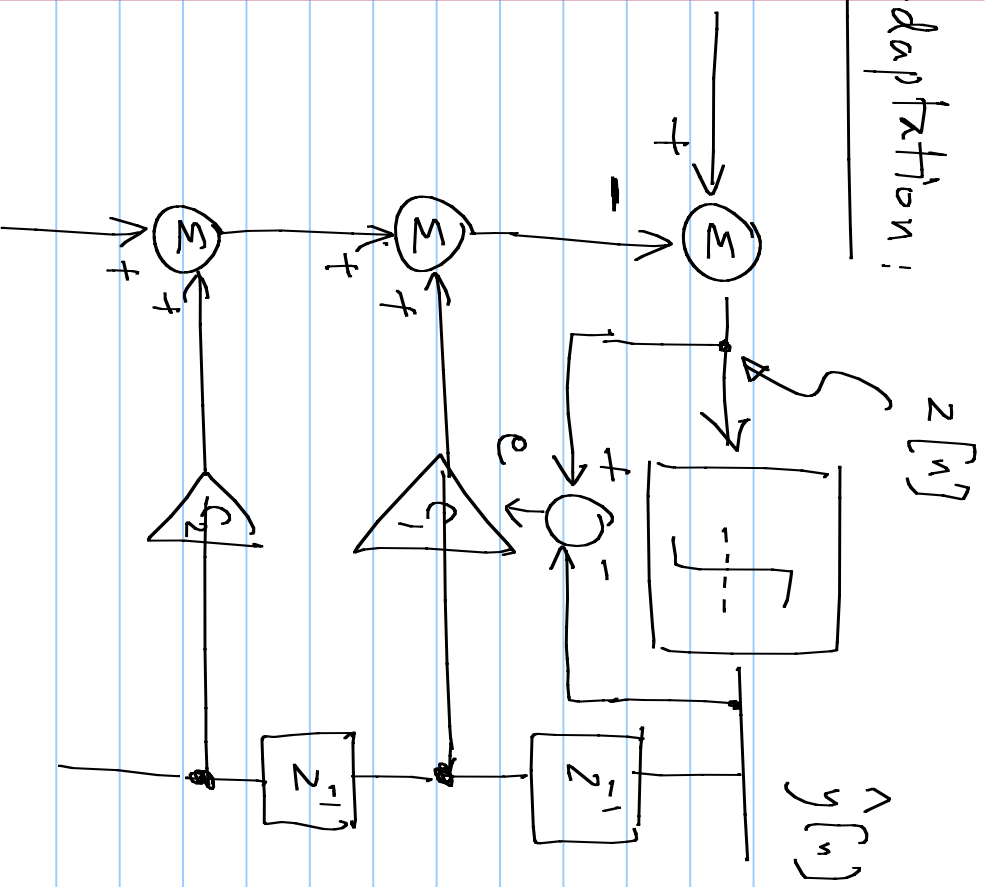
Decision feedback equalizer DFE

Note Title

09-10-2007



Adaptation:



$$z[n] = y[n] - \sum_{k=1}^M c_k \hat{y}[n-k]$$

$$c_k[n+1] = c_k[n]$$

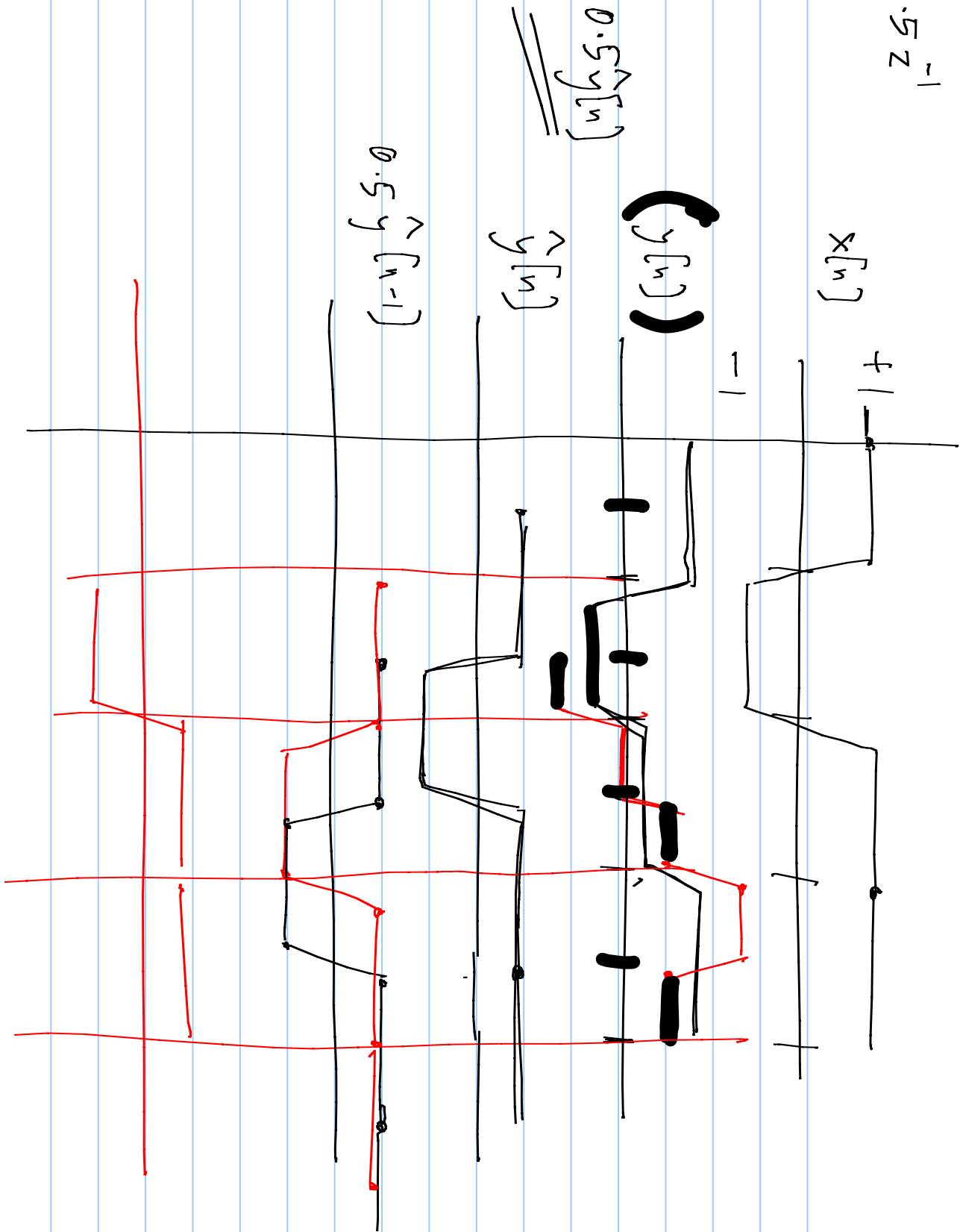
$$LMS \quad + \mu \cdot e[n] \cdot \hat{y}[n-k]$$

$$c_k[n+1] = c_k[n]$$

$$+ \mu \operatorname{sgn}(e[n]) \cdot \hat{y}[n-k]$$

Sign-sign LMS (bin any data)

$$1 + 0.5z^{-1}$$



$$\underline{z(t)} = y(t) \neq \sum C_k \hat{y}(t - kT_s)$$

$$e(t) = z(t) - \hat{y}(t)$$

$$z(nT_s + T_0)$$

$$e(nT_s + T_0)$$

