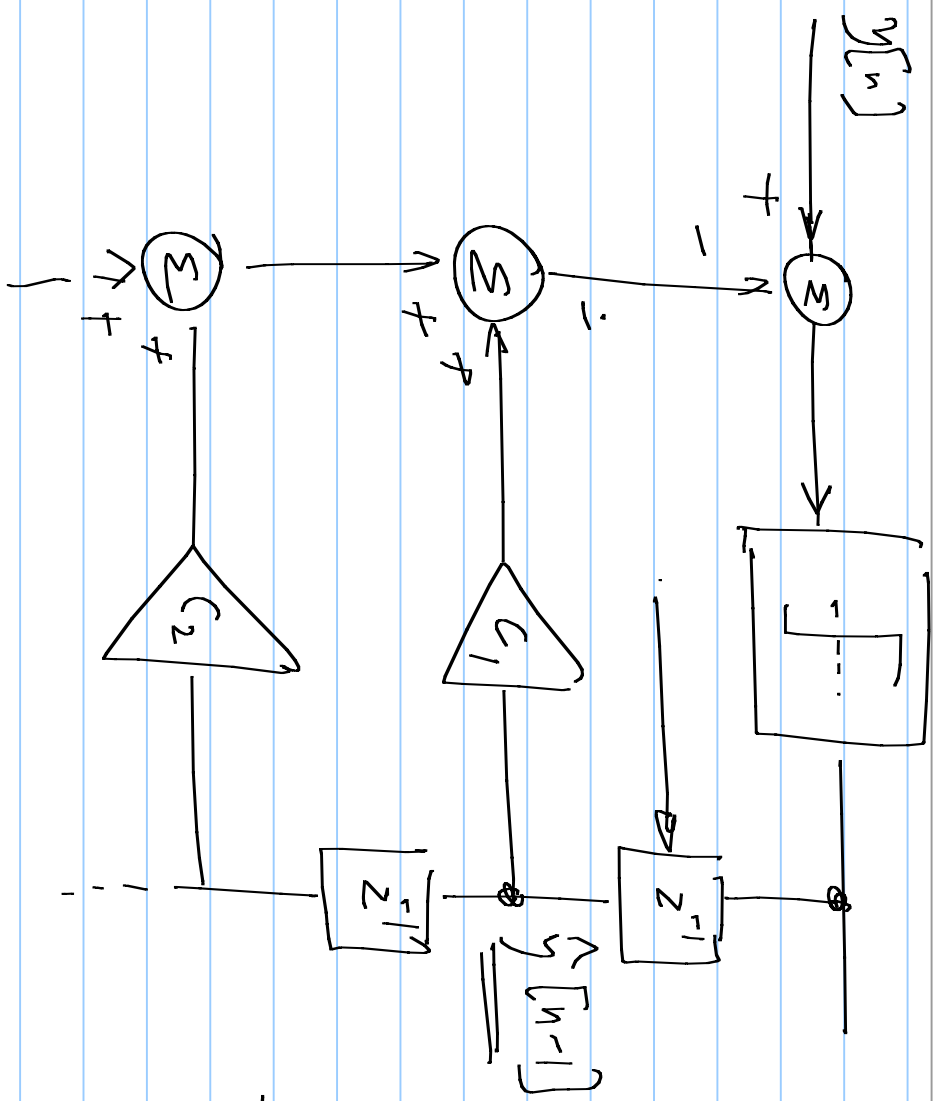


Decision feedback equalization;

Note Title

Digital implementation



Slicer: (binary).

MSB

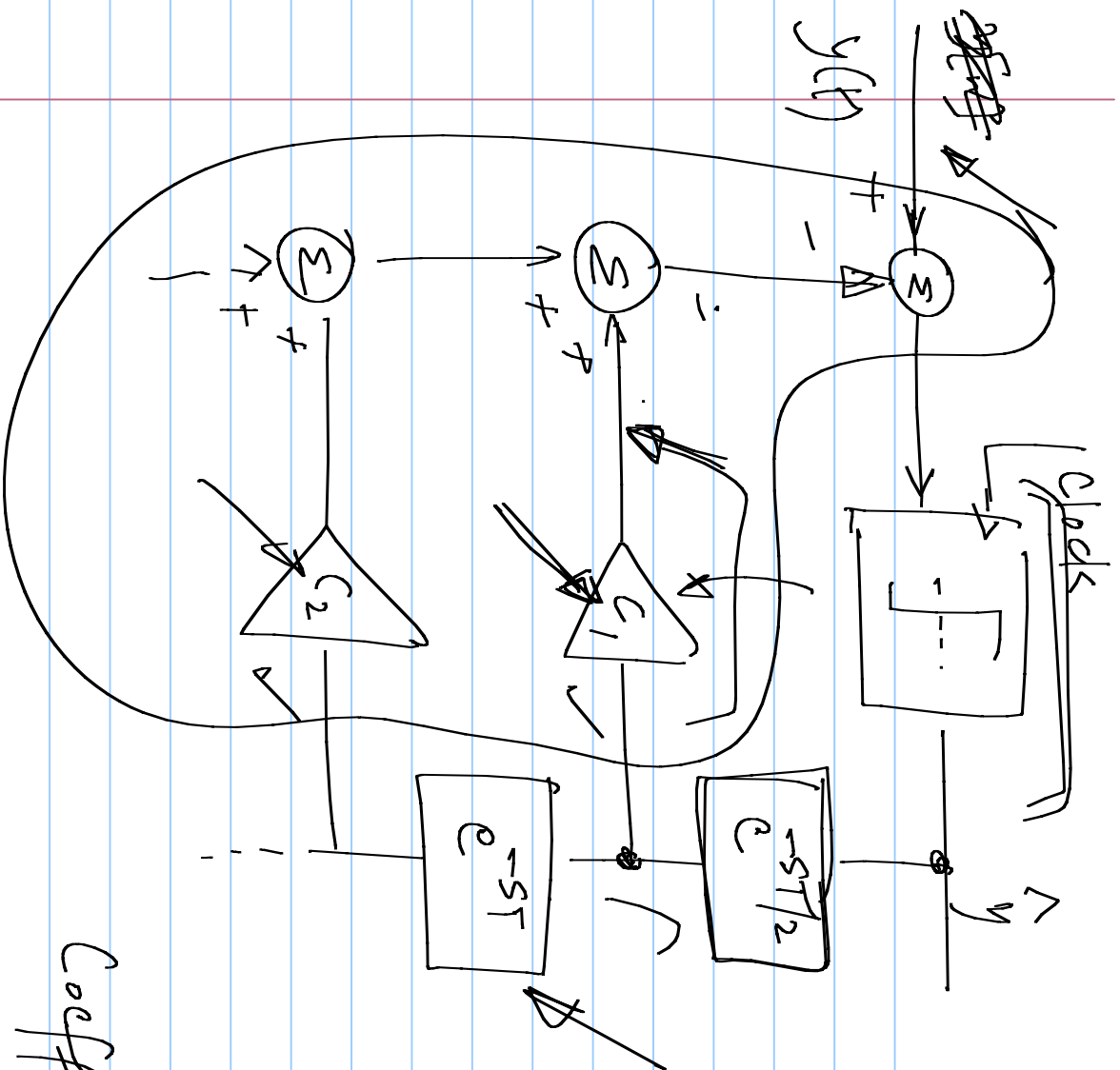
Delays: Flip flops

Coeff: Multiplier

[select $\pm C_1$]

Adders:

=====



Analog implementation:

Slicer; Regenerative

latch / FF

Delay: $e^{-sT/2}$ may

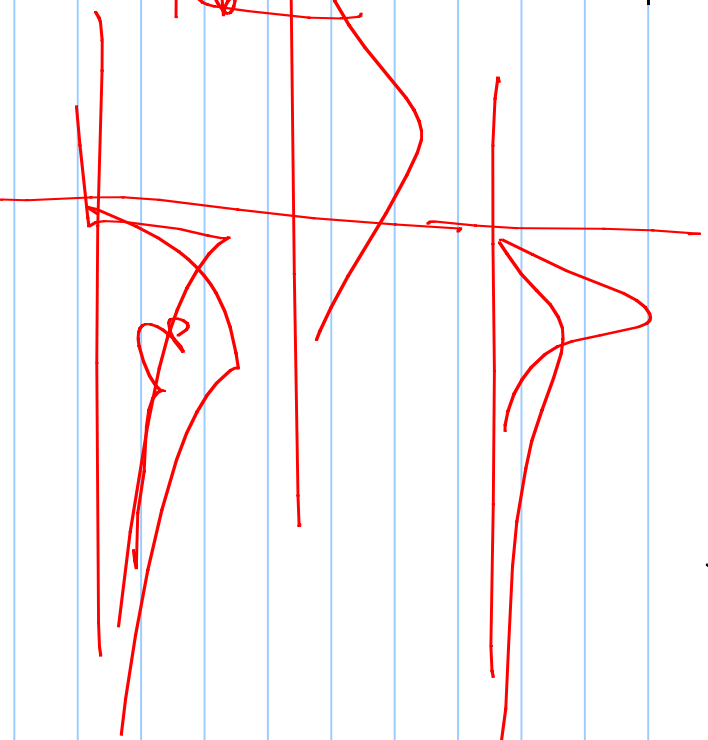
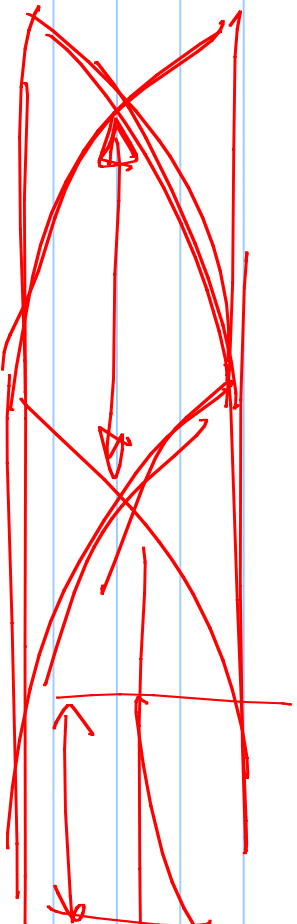
not be explicitly implemented — absorbed into the delays of

FF, coefficients.

Coefficients: differential pairs.

$H(z)$

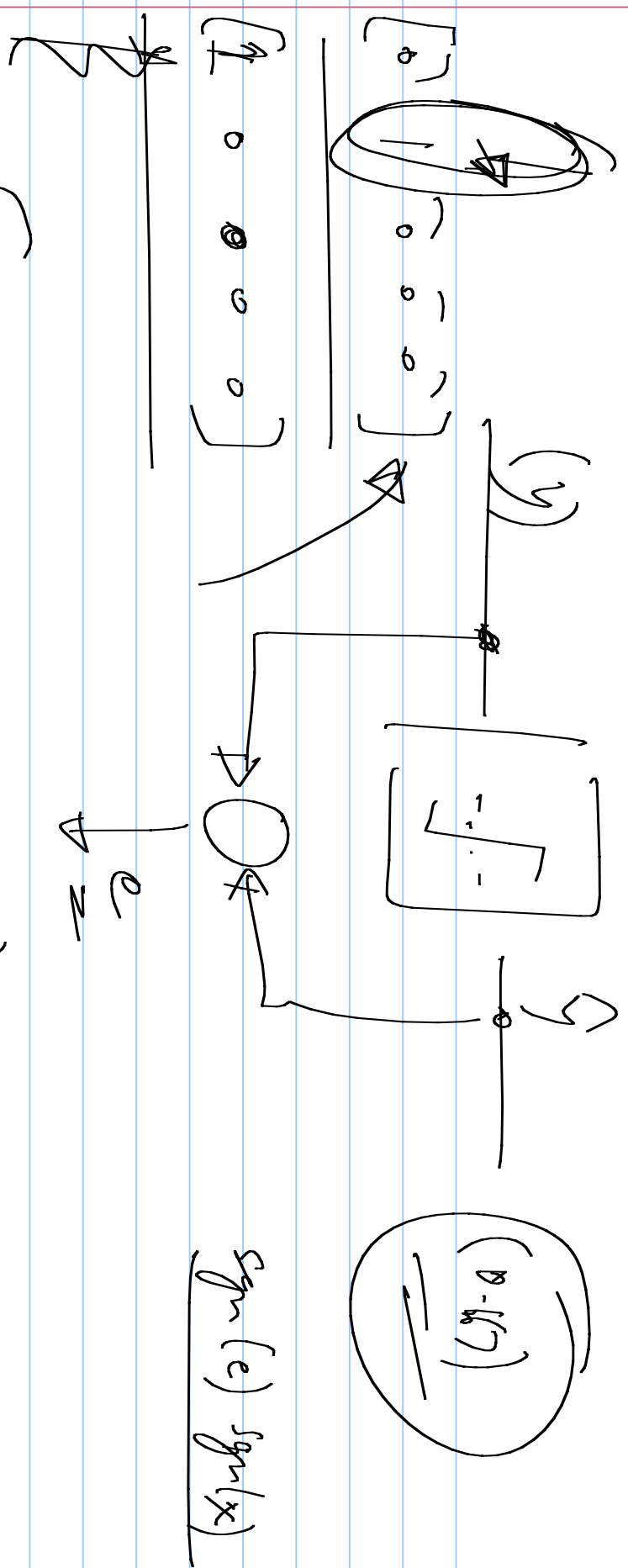
$$\left[\frac{1}{H(z)} \right]$$



$$\underline{\underline{(A^T A)^{-1} A^T \cdot y}}$$

$$\begin{bmatrix} 0 \\ \vdots \\ 1 \\ 0 \\ \vdots \\ 0 \end{bmatrix}$$

(3.7)

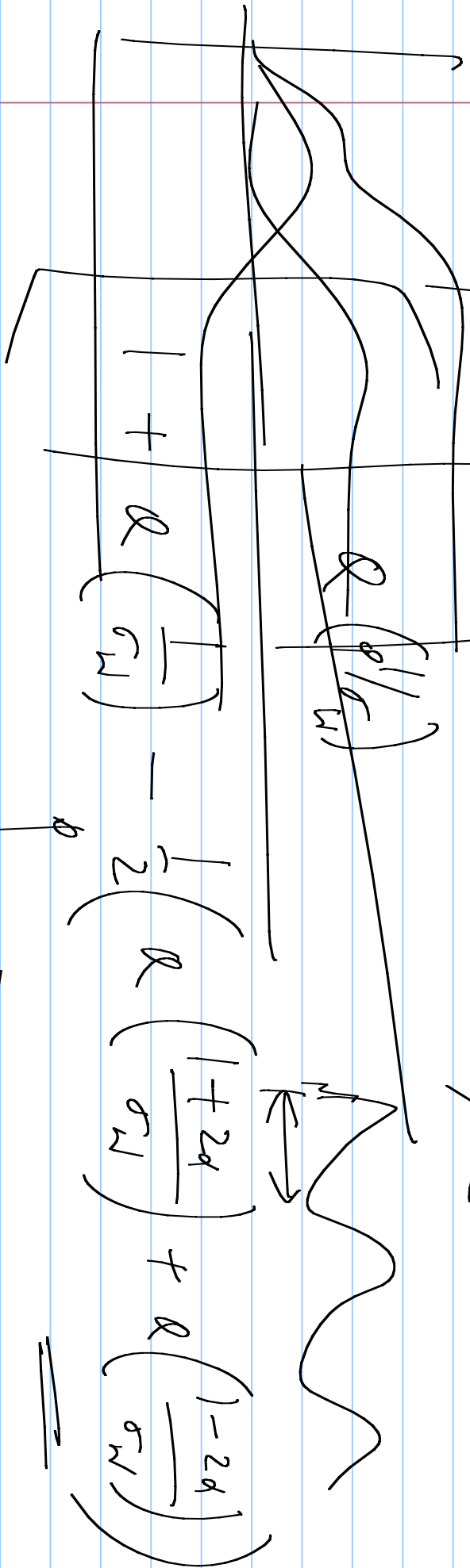
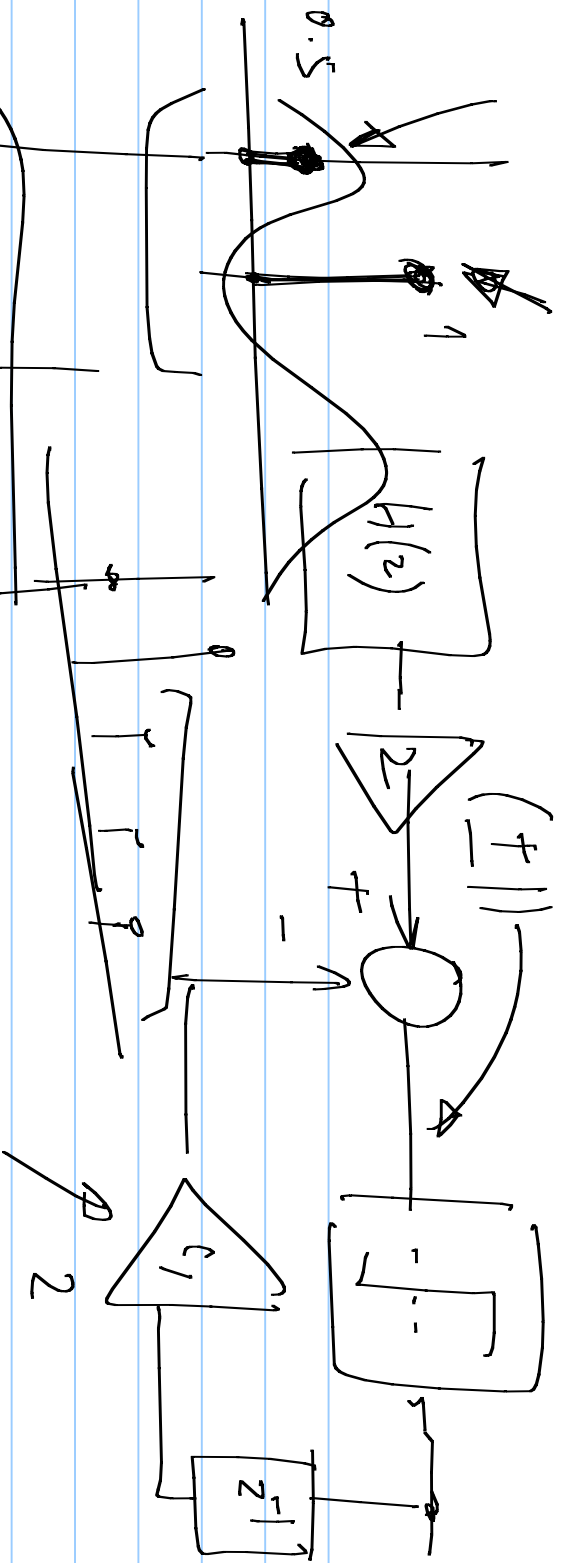


$$\begin{bmatrix} -0.25 & | & -1.5 & 1.25 \end{bmatrix}$$

1 2 3 4 5 6 7 8 9 10

$$\begin{array}{cccccccccccc} 0 & -0.25 & | & -0.5 & 0.25 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$$

$$\begin{array}{cccccccccccc} 0 & 0 & -0.25 & | & 0.5 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$$



$$1 + \frac{1}{2} \left(\frac{1}{\sigma_M} \right) - \frac{1}{2} \left(\frac{1+2\alpha}{\sigma_M} \right) + \frac{1}{2} \left(\frac{1-2\alpha}{\sigma_M} \right)$$

