

Continuous Time Model

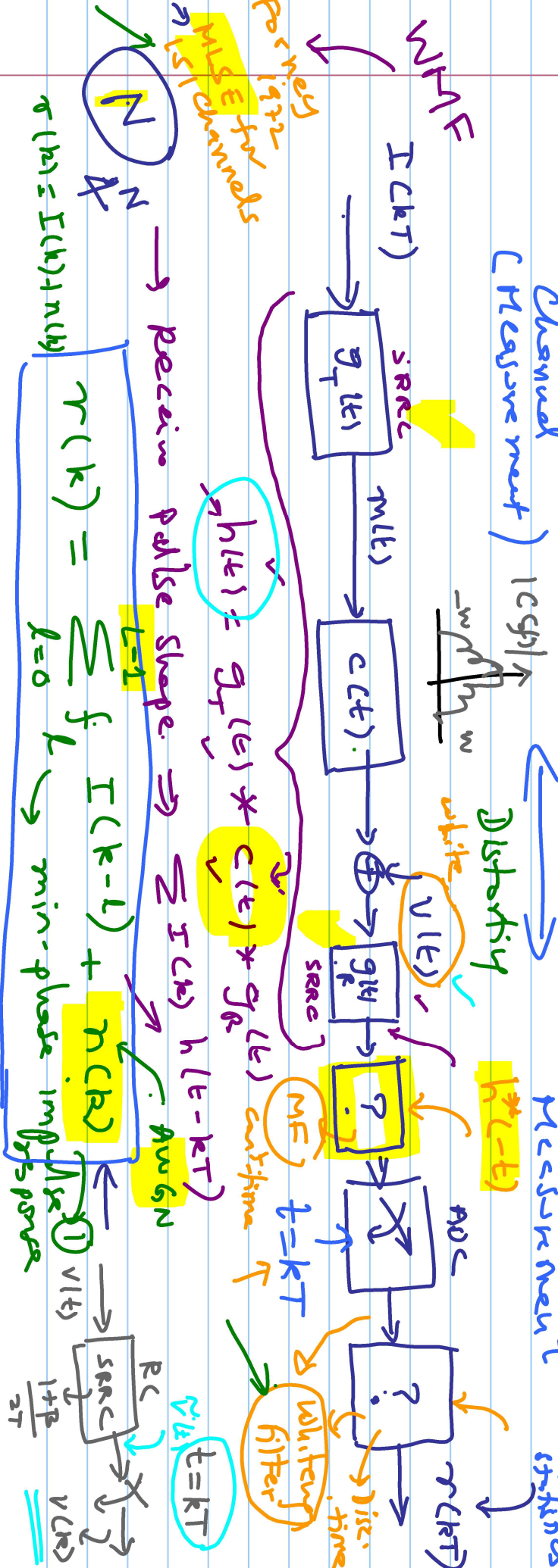
Channel

(Measurement) 10dB

Distortion

Discrete-Time Measurement

efficient statistics



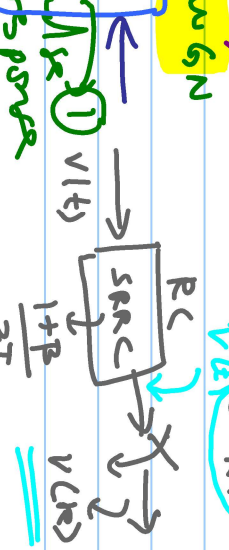
MAVE
 Po 1922
 MSE for
 1/51
 1/51

N
 A^N

Receiver pulse shape \Rightarrow

$$r(k) = \sum_{l=0}^{L-1} f_l I(k-l) + n(k)$$

\rightarrow min-phase impulse response

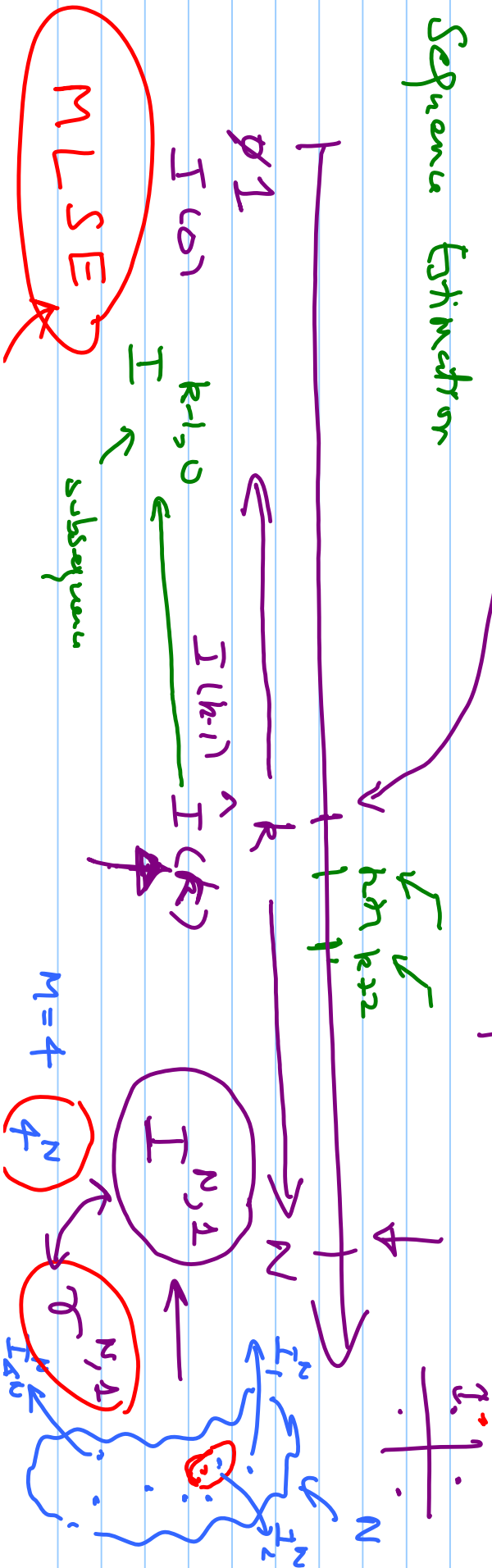


nyquist Rate measurement Model $\rightarrow kT/2 \parallel \leftarrow$

What is the optimal receiver for (1)?

$$y: \mathbf{I} = 3 \quad \sigma(k) = f_0 \mathbf{I}(k) + f_1 \mathbf{I}(k-1) + f_2 \mathbf{I}(k-2) + n(k)$$

Sequence Estimator



Vilfredo Pareto