





A Blast from the Past  

$$\hat{s} = \frac{\mathbf{e}^{H}(\mathbf{\theta})\mathbf{K}_{n}^{-1}}{\mathbf{e}^{H}(\mathbf{\theta})\mathbf{K}_{n}^{-1}\mathbf{e}(\mathbf{\theta})}\mathbf{y} = \mathbf{a}^{H}\mathbf{y}$$

$$\equiv \mathbf{a}^{H}$$
• Recall  $\mathbf{a}^{H} \propto \mathbf{e}^{H}(\mathbf{\theta})\mathbf{K}_{n}^{-1}$  are the weights that maximize SNR  
-Showed this  
in Lecture 13

















