Revvew:

Maryon band MINIO

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$$\begin{pmatrix} y_1 \\ y_2 \\ \vdots \\ y_{Mr} \end{pmatrix} = H \begin{pmatrix} \pi_1 \\ \pi_2 \\ \vdots \\ \pi_{Mt} \end{pmatrix} + \begin{pmatrix} \pi_1 \\ \pi_2 \\ \vdots \\ \pi_{Mr} \end{pmatrix}$$

Monday / LL  $= Mr$ 

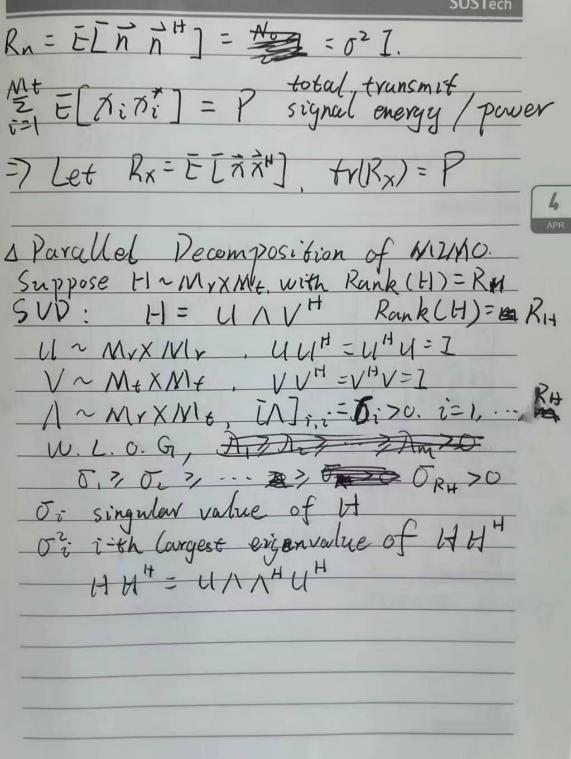
$$\vec{y} = H\vec{x} + \vec{n}$$
MYXMH

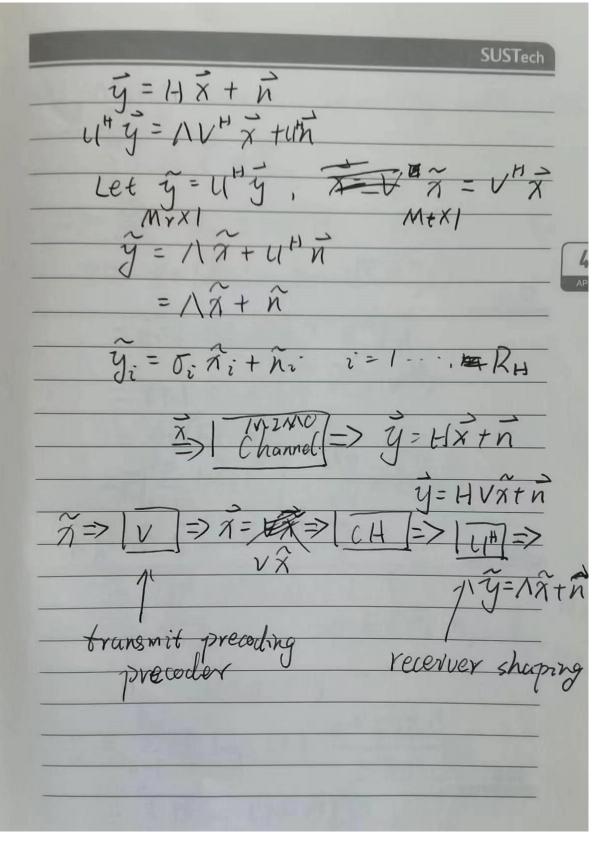
$$R_n = E L \vec{n} \vec{n}^{\dagger} = \sigma^2 1$$

transmit power of the i-th antenna.

30 + \( \text{Total transmit power } \text{E[\( \text{Xi} \) = \( \text{E[\( \text{Xi} \) } \)]} \]

Total transmit power  $\text{E[\( \text{Xi} \) } \text{E[\( \text{Xi} \) } \] = \( \text{Vi} \) \( \text{Rx} = \( \text{E[\( \text{X} \) } \text{H} \) = \( \text{Vi} \) \( \text{Rx} \) = \( \text{P} \)$ 





SUSTech

DILINIO Channol Capacity with CS17 & CS1R.

$$\vec{Y} = \vec{H} \vec{X} + \vec{n}$$
 $\vec{Y} = \vec{H} \vec{X} + \vec{n}$ 
 $\vec{Y} = \vec{H} \vec{X} + \vec{N} \vec{X}$ 

