$$E(w) = \sum_{n=1}^{N} \frac{y_n - w^T \phi_n^2}{y_n - w^T \phi_n^2}$$

$$\sum_{n=1}^{N} \frac{(y_n - w^T \phi_n)^2}{y_n - w^T \phi_n^2}$$

$$R = \begin{bmatrix} V_1 & \cdots & V_n \end{bmatrix} \rightarrow$$

$$2 \sum_{n} \sum_{n} y_{n} y_{n} = \sum_{n} y_{n} y_{n} y_{n} y_{n} + \sum_{n} y_{n}$$

$$\frac{d}{dt} = \begin{bmatrix} d_1^T \\ d_2^T \\ d_3^T \end{bmatrix} = \begin{bmatrix} d_1^T \\ d_2^T \\ d_3^T \\ d_3^T \end{bmatrix}$$

Jyh JRy [r.y]

NXIN NXN

O'2 . r. Jyn [r.y]

[1 1 1 1] [(Vay) = Z Yay M

Ey. ... yn) [ry] = Zrnynyn

$$y^{T} = [y_{1} \dots y_{n}] \begin{bmatrix} \phi_{1}^{T} \\ \vdots \\ \phi_{m}^{T} \end{bmatrix} = [y_{n} + \phi_{n}^{T}]$$

$$Ry = \begin{bmatrix} r_1 y_1 \\ r_2 y_1 \end{bmatrix} \qquad A = \begin{bmatrix} 100 \\ 010 \\ 00-4 \end{bmatrix}$$

$$(Ry)^T = y^T R^T = y^T R$$

$$\frac{\sum \sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}}{\sum \sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}} = \frac{\sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}}{\sum \sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}} = \frac{\sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}}{\sum \sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}} = \frac{\sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}}{\sum \sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}} = \frac{\sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}}{\sum \sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}} = \frac{\sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}}{\sum \sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}} = \frac{\sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}}{\sum \sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}} = \frac{\sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}}{\sum \sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}} = \frac{\sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}}{\sum \sqrt{n} \cdot \sqrt{n} \cdot \sqrt{n}} = \frac{\sqrt{n} \cdot \sqrt{n}}{\sum \sqrt{n}} = \frac{\sqrt{n}}{\sum \sqrt{n}} = \frac{n}{\sum \sqrt{n}} = \frac{n}{\sum \sqrt{n}} = \frac{n}{\sum \sqrt{n$$