

$$\begin{bmatrix}
 a_{00} & a_{01} & \dots & a_{0N} \\
 a_{10} & a_{11} & \dots & a_{1N} \\
 \vdots & \vdots & & \vdots \\
 a_{N0} & a_{N1} & \dots & a_{NN}
 \end{bmatrix}
 \begin{bmatrix}
 u_0 \\
 u_1 \\
 \vdots \\
 u_N
 \end{bmatrix}
 =
 \begin{bmatrix}
 w_0 \\
 w_1 \\
 \vdots \\
 w_N
 \end{bmatrix}$$