

Equation for one cell

$$\begin{bmatrix}
 a_{p,0} & a_{E,0} & 0 & \cdots & 0 \\
 a_{w,1} & a_{p,1} & a_{E,1} & \cdots & 0 \\
 0 & a_{w,2} & a_{p,2} & a_{E,2} & \cdots & 0 \\
 \vdots & \vdots & \vdots & \vdots & \ddots & \vdots \\
 0 & \cdots & 0 & a_{w,N} & a_{p,N}
 \end{bmatrix}
 \begin{pmatrix}
 \delta T_0 \\
 \delta T_1 \\
 \vdots \\
 \delta T_N
 \end{pmatrix}
 =
 \begin{pmatrix}
 -r_0 \\
 -r_1 \\
 \vdots \\
 -r_N
 \end{pmatrix}$$