

For V, - Vu-z juctios ! 2 currents in so all will have D=In+Inz -Iani-Tanz all currents are equal to  $I_{i} = \frac{\Delta V_{i}}{R} = \begin{cases} V_{i-1} - V_{i} \\ R \end{cases}$ i # 1, 2, W-1, N U: - V: +2 At ith junction 0= ZIi = 1/2[(Vi-z-Vi)+(Vi-1-Vi) - ...- (Vi-Vi+1)-(Vi-Vi+z)] D = Vi-z + V; -, + V; +, + V; +2 -4V; =-V:-z - V:-, + 4U; - V:+, - V:+2 Pulling this into matrix form: Av = is express are D

all black space are 200