70 get the best of FTCS & laasonen

$$\frac{d^2T}{dx^2} = Y\left[\frac{T_{(A),j+1} - 2T_{(H),j} + T_{(H),j}}{\Delta x^2}\right] + \frac{1}{\Delta x^2}$$

$$(1-8)\left[\frac{T_{(J,j+1)} - 2T_{(J,j)} + T_{(J,j+1)}}{\Delta x^2}\right] \stackrel{inversel}{=} \frac{1}{\Delta x^2}$$

Grank Nicholson 8-12

$$-F\left(\int_{i+1,j+1}^{T_{i+1,j+1}} + \chi(i+F) + \chi(i+F$$