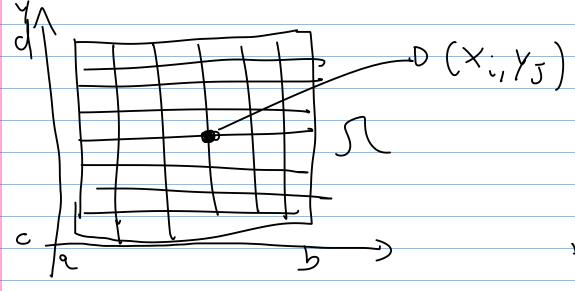
## FILME DIFFERENCE IN 2D

S( = [9,6] x[b,d]



$$\frac{U_{i+1,3} - 2U_{i,3} + U_{i-1,3}}{\Delta x^{2}} + \frac{U_{i,3+1} - 2U_{i,3} + U_{i,3-1}}{\Delta y^{2}}$$

$$\frac{U_{i+1,3} - U_{i,3} + U_{i,3-1}}{\Delta x^{2}} + \frac{U_{i,3+1} - U_{i,3-1}}{\Delta x^{2}}$$

· SYS LIW Au=+ N.M pti e INCOMITE Ugo (1°, n) (1° n 2°0 ... (N-1°0 ) Uo,M-1 U2 = U13 U,0 &  $\Pi + I$ \d= i11+=  $A_{xx} = \frac{2}{0x^2} + \frac{2}{0y^2}$ 11+11-1  $A_{AB} = -\frac{1}{\Delta \gamma^{2}} \quad Per \quad \beta = i\Pi + (j_{H})$   $A_{AB} = -\frac{1}{\Delta \gamma^{2}} \quad Per \quad \beta = \alpha - (-i\Pi + (j_{A}))$  Nin -1Division - 201,5 + Ui-1,5 + Ui,5+1 - 2 Ui,5 + Ui,1-1

Dx2

Ay2

-

Alking wing = 
$$f_{0,K}$$
  $f_{0,1}$   $f_{0,1}$