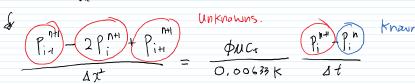
< Example for ID diffusivity equation with FDE>

$$\frac{P(x-3x,t)-2P(x,t)+P(x+3x,t)}{4x}=\frac{\phi\mu c_{t}}{0.00637k}\frac{P(x,t)-P(x,t-st)}{3t}$$

P(a-a,t) P(a,t) P(a+a,t) Pi-1 Pi Pi+1 t= 6-at Pin on Pin f=t Pint part part t= t+xt

$$\frac{P_{i-1}^{n} - 2P_{i}^{n} + P_{i+1}}{4x^{2}} = \frac{\phi_{M}C_{t}}{0.00633k} \frac{P_{i}^{n} - P_{i}^{n-1}}{\Delta t}$$



* Example problem

DInitral anditron.

$$p(x,t=0)=1000 \text{ psra}$$
.

(2) Boundary condition | Open boundary condition. -> Constant value b.c L closed boundary condition. > Constant vake b.c.

P(i=1, t) = 1000 psra. p(i=5, t) = 500 psra.) \Rightarrow constant value boundary.

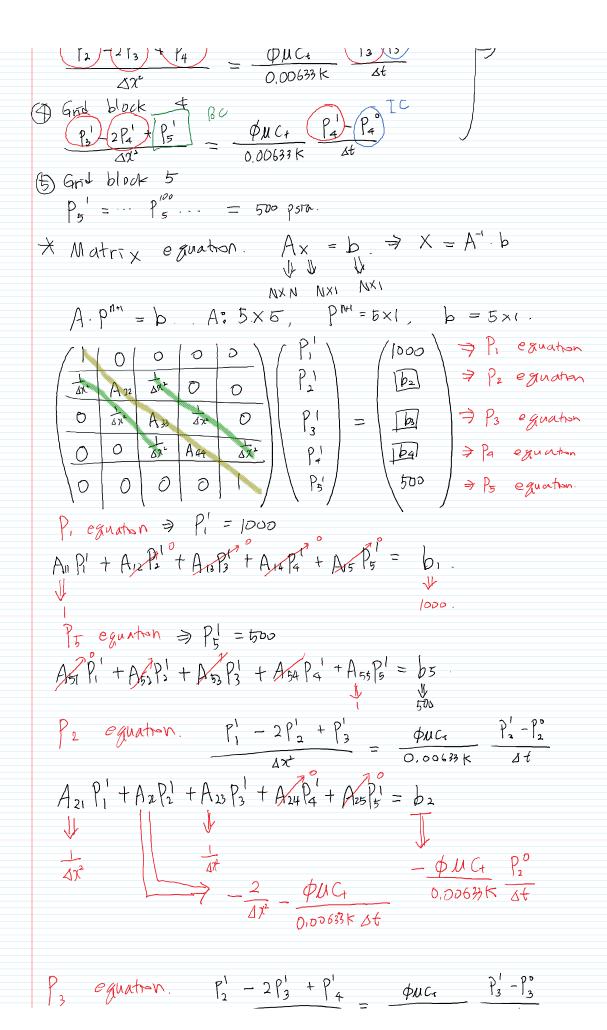
P, = 1000 psta, P2 = 1000 psta, P3 = 1000 psta. P4 = 1000 psta. P5 = 500 psta.

D Grid block 1. P1 = 1000 = P1 = P1 = .. 1000 PFA.

(2) Grid block 2
be
$$p_1' - 2p_2' + p_3' = \frac{\phi_{UC_1}}{O_1 \circ 0633} \times \frac{p_2' p_0}{J_2}$$

$$\frac{\partial}{\partial r_{1}} d b lock \frac{2}{2} \\
\frac{P_{2}^{1} - 2P_{3}^{1}}{\sqrt{2P_{4}^{2}}} = \frac{\partial \mu C_{4}}{O.00633 \, k} \frac{P_{3}^{1} P_{3}^{0}}{\Delta t}$$

3 equations 3 unknowns (P1, P5, P4)



New Section 3 Page

$$P_{3} = g_{1}u_{2}h_{1} - h_{1} P_{1}^{1} + A_{1} P_{1}^{1} + A_$$