for non custommedia: finite Ditterence is the colouble of Ith 9-31, 9 9-1/2 9-1 1+3/2 1+2 9+5/2 -1 2 r2 DOO + rad = Q (alculate at cell centers: is. -1 0 2 DOD + 000 | + 000 | = 00 | 1) -1 0 200 0 - 12 Vinh Dinh 00 it/2 - 1-1/2 Di-1/2 00/ it/2 = -1 Vithe Dithe (din -Di) - Vith Dithe (Dithe (Dithe) + Vinic Dinic [di] - Vinc Dinc [din]

- Vinc Dinc [din]

- Vinc Dinc [din]

- Vinc Dinc [din]

12) oat, 2 oa, di 3 ol, 2 o;

Then we have

$$\left[\begin{array}{c} \Phi_{i-1} \end{array} \right] \left(\begin{array}{c} -\frac{v_{i-l_{L}}^{2}}{r_{l}^{2}} \frac{D_{i-l_{L}}}{\Delta x_{i}} \frac{D_{i-l_{L}}}{\Delta x_{i}} \right) \\ + \left(\begin{array}{c} \Phi_{i+1} \end{array} \right) \left(\begin{array}{c} \sigma_{a_{i}} + \frac{v_{i-l_{L}}^{2}}{r_{i}^{2}} \frac{D_{i-l_{L}}}{\Delta x_{i}} \frac{D_{i+l_{L}}}{\Delta x_{i}} \frac{D_{i+l_{L}}}{\Delta x_{i}} \right) \\ + \left(\begin{array}{c} \Phi_{i+1} \end{array} \right) \left(\begin{array}{c} -\frac{v_{i+l_{L}}}{v_{i}^{2}} \frac{D_{i+l_{L}}}{\Delta x_{i}} \frac{D_{i+l_{L}}}{\Delta x_{i}} \right) \\ & = 2 \end{array} \right)$$

Make sure material boundaries are at coll centers. So Di-1/2 & Ditty can be defined naturally based an which material region it 1/2 & i+1/2 tall into

pour for 0 boundaires, we have

for lett bounday: we have \$11/2 20.

so, ean will be

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