

$$k_m = 2 \quad k_f = 20000 \quad \phi_f = 0.001$$

$$k_{f, \text{eff}} = 2 + 0.001 (20000) = 22 \text{ md}$$

DUAL POROSITY : grid-to-grid flow

$(\phi_f k_f)$? in Darcy Eq.

DDP : grid-to-grid flow

$\phi_f k_f + k_m$? in Darcy

$$\phi_f \equiv \frac{V_f}{V_f + V_m} ?$$



Single Matrix Block

$$V_f = \Delta x \cdot \Delta y \cdot \Delta z \cdot \phi_f$$

$$V_m = \underbrace{\hspace{10em}} \cdot \phi_m$$