$$\vec{v} = \vec{Q}$$

$$\frac{\partial(\rho\phi)}{\partial t} + \nabla \cdot (\rho\vec{Q}) = 0$$

$$\phi = \rho(\rho(\vec{x})), \quad \phi = \phi(\rho(\vec{x}))$$

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$$\phi$$

$$\vec{G} = -\frac{\vec{k}}{\mu} (\nabla p - \langle \vec{Q} \rangle) \quad \text{homo, iso, no gravity}$$

$$\partial p = (\nabla Q \cdot (\frac{k}{\mu} \nabla p) - \nabla \cdot (\frac{k}{$$

$$\phi c_{t} = - c \Delta b \cdot \left(\frac{h}{k} \Delta b\right) - \Delta \cdot \left(\frac{h}{k} \Delta b\right) = 0$$

$$\frac{\mu\phi c_{+}}{k} \frac{dp}{\partial t} = \nabla \cdot (\nabla p) + c(\nabla p \cdot \nabla p) \qquad \text{small $t$ constant}$$

$$\frac{dp}{dp} = \nabla \cdot (\nabla p) + c(\nabla p \cdot \nabla p) \qquad \text{compressibility}$$

$$\left[\frac{\partial f}{\partial t} = \frac{1}{\alpha} \nabla \cdot (\nabla p)\right]$$
 Heat equation

"Pressure diffusivity egn"