$$\begin{array}{c} P_{i} \\ P_{i} \\$$

$$\frac{1}{r} \frac{\partial d}{\partial r} \left(r \frac{\partial c}{\partial r} \right) = \frac{\partial c}{\partial t}$$

$$r = r, \quad c = ci$$

$$\frac{d^2U}{dr^2} + \frac{2}{r}\frac{dU}{dr} + \frac{2U}{r^2} = \left(\frac{1+V}{r}\right)\frac{\Omega}{3}\frac{dC}{dr}$$

$$\epsilon_r = \frac{1}{r} \frac{dV}{dr}$$
 $\epsilon_{\phi} = \frac{V}{r}$

$$Y = Y; \quad \nabla_{r} = -P \quad \text{why } -P??$$

$$\int_{r} = \frac{E}{(t+v)(2v-1)} \left[(v-1) \, \epsilon_{r} - v \, \epsilon_{\theta} + \frac{1}{3} \, \Omega \, C \right]$$

$$\frac{E}{(Hv)(2v-1)} \left[(v-1) \, \frac{dv}{dr} - v \, \frac{v}{r} + \frac{1}{3} \, \Omega \, c \right] = -P$$

$$(v-1)\frac{dv}{dr} - v\frac{v}{r} = -p(1+v)(2v-1) - \frac{1}{3}ac$$

$$(v-1)\frac{dv}{dr} - v\frac{v}{r} = -\frac{1}{3}nc$$

https://pkel015.connect.amazon.auckland.ac.nz/SolidM Part_II/04_ElasticityPolar/ElasticityPolars_Complete.pdf