



Mechanical modes

$$\frac{\partial}{\partial r_j} \boxed{T_{ij}(\mathbf{r}, t)} = \boxed{\rho_0(\mathbf{r}) \frac{\partial^2 U_i}{\partial t^2}} - \boxed{f_i(\mathbf{r}, t)}$$

Stress tensor acceleration External force



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Stress tensor
acceleration
External force

$$T_{ij} = \boxed{c_{ijkl} S_{kl}} + \boxed{\eta_{ijkl} \frac{\partial S_{kl}}{\partial t}}$$

Stiffness (Hooke's law)
Friction

