

$$\frac{\partial \rho_0}{\partial t} = 0$$

$$\rho_0 \frac{\partial \mathbf{V}}{\partial t} = \text{Div}(\mathbf{P}) + \mathbf{b}$$

$$\rho_0 \frac{\partial e}{\partial t} = \mathbf{P} : \dot{\mathbf{F}} + P_{\text{a}} \dot{\lambda}_{\text{a}} + P_{\text{c}} \dot{\beta}$$

$$\rho_0 \frac{\partial \eta}{\partial t} \geq 0$$