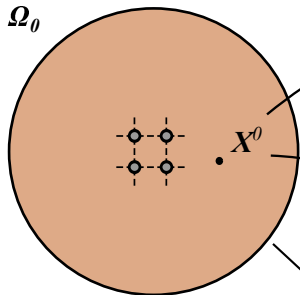


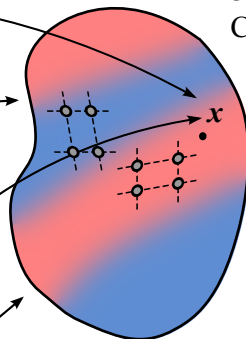
Reference Material  
Configuration,  $\Omega_0$



$\bar{\varphi}(X^0)$

$$\bar{F} = \frac{\partial \bar{\varphi}}{\partial X^0}$$

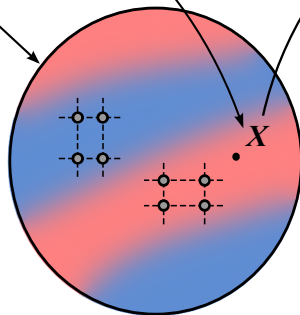
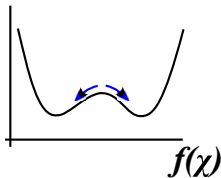
Current Deformed  
Configuration,  $\Omega_t$



$\kappa(X^0)$

$\chi$

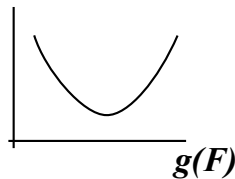
$\psi^M$



$\varphi(X)$

$F$

$\psi^E$



Evolved Material  
Configuration,  $\Omega$

