

$$\begin{cases} \rho(\phi) = \rho_1 + (\rho_2 - \rho_1) H(\phi) \\ \mu(\phi) = \mu_1 + (\mu_2 - \mu_1) H(\phi) \\ \boldsymbol{f}_{sf}(\phi) = \sigma \kappa(\phi) \nabla H \end{cases}$$