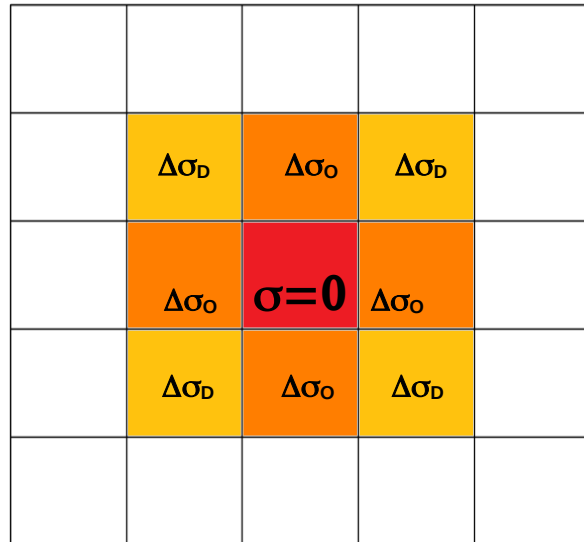
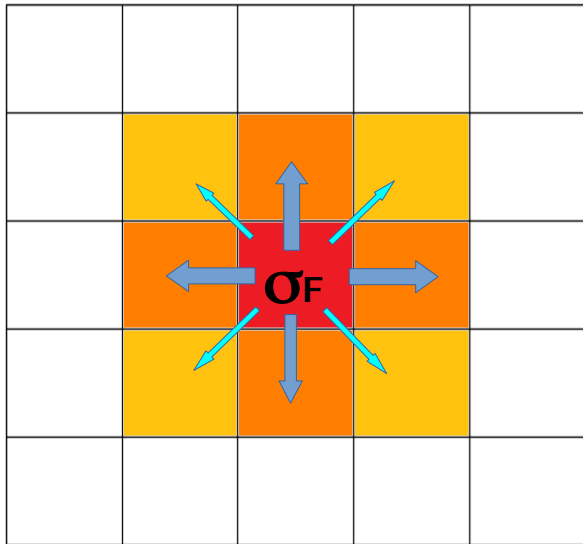


During rupture



After rupture



*Failed or broken cell*



*Diagonal neighbors*

$$\Delta\sigma_D = \sigma(i,j) + \sigma_D$$



*Orthogonal neighbors*

$$\Delta\sigma_o = \sigma(i,j) + \sigma_o$$