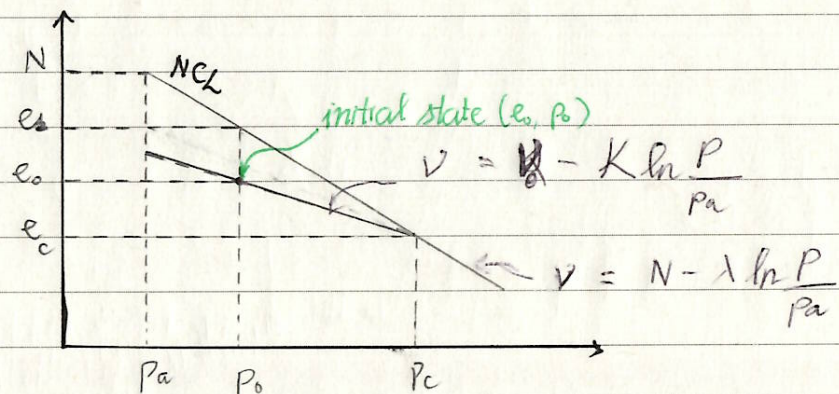


CAM CLAY MODEL

Calculate p_{co} = function (e_o , p_o , λ , K , p_a)



If current soil state is NC $\Rightarrow p_c = p_o$

If soil's current state is OC \Rightarrow refer to the figure

$$1 + e_1 = N - \lambda \ln(p_o/p_a)$$

② Void ratio / specific volume at p_c :

$$\left. \begin{aligned} 1 + e_c &= (1 + e_1) - \lambda \ln(p_c/p_o) \\ 1 + e_c &= (1 + e_o) - K \ln(p_c/p_o) \end{aligned} \right\} \Rightarrow$$

$$\begin{aligned} \Rightarrow 1 + e_1 - \lambda \ln(p_c/p_o) &= 1 + e_o - K \ln(p_c/p_o) \\ \Rightarrow e_1 - e_o &= (\lambda - K) \ln \frac{p_c}{p_o} \end{aligned}$$

$$\Rightarrow p_c = p_o \cdot \exp\left(\frac{e_1 - e_o}{\lambda - K}\right)$$

Note: when soil is NC $\Rightarrow e_1 = e_o \Rightarrow p_c = p_o$

$$\frac{1}{(1+e_o)(1-z_o)} \frac{1}{G} = \frac{K}{2(1+e_o)}$$

$$G =$$

$$\ln p_c = \frac{1}{\lambda - K} \{N - v_o + \lambda \ln p_a - K \ln p_o\}$$