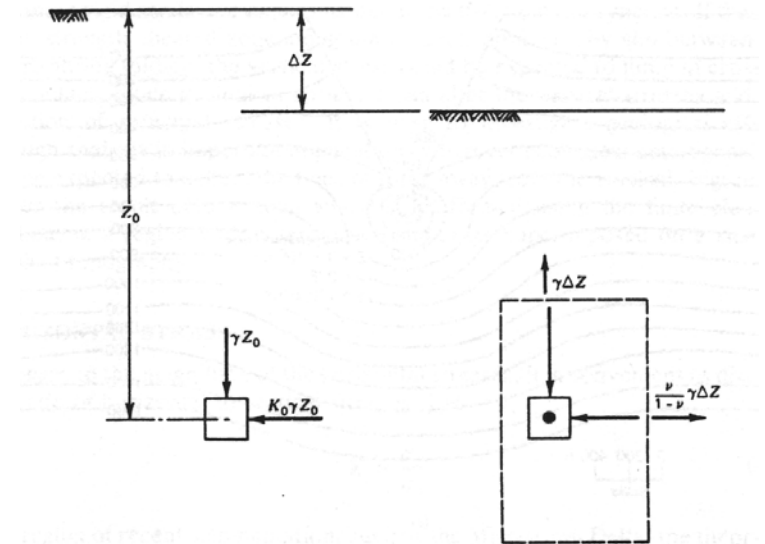
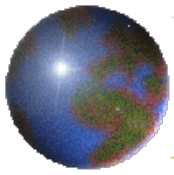


HW1

- 某處地層沉積過程中原始靜止土壓力係數為0.8，泊松比為0.3，該處有20公尺的地層遭侵蝕作用而消失，請繪出該處現在靜止土壓力係數與深度之關係圖。





HW2

✚ Prove

$$K_a = \frac{\gamma_s \cdot Z - q_u}{\gamma_s \cdot Z \cdot \tan^2(45^\circ + \phi/2)}$$

$$K_p = \tan^2(45^\circ + \phi/2) + \frac{q_u}{\gamma_s \cdot Z}$$

✚ If $q_u = 1\text{MPa}$, $\phi = 30^\circ$, $\gamma_s = 2.5 \text{ T/m}^3$, please find the upper and lower bound of K_o when $z = 1\text{km}$, 2km , and 3km

