CVL3211: Quiz 1

Date: September 14, 2016

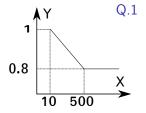


Figure: 1 Q.2

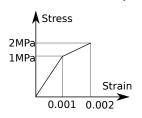


Figure: 2

- a In Figure 1, Y-axis and X-axis denotes σ_A/σ_Y and number of load cycle (n) respectively. Find σ_A for n=250 and endurance limit if $\sigma_Y = 250 MPa$.
- b For Figure 2, find Yield stress from offset method.
- c Find modulus of resilience and toughness for Figure 2.
- a Cement A has more C_2S content than cement B. Assuming both have same final setting time, which will have more gypsum requirement? Explain.
- b Which property of cement is affected by unreacted *CaO* present in it? How is it measured in laboratory?
- c How does fly ash affect workability of cement? Explain.