

CVL3211 : Quiz 3

Date : November 14, 2016

- Q.1
- a Given %C of two steels S_1 and S_2 are 0.2 and 0.5 respectively. Plot their relative $\sigma - \epsilon$ curve.
 - b For above data, If S_1 is alloyed with 6% Manganese and S_2 is alloyed with 5% Molybdenum. Find out carbon equivalent of S_1 and S_2 .
 - c For above data, out of S_1 and S_2 , which will require more heat to reach pure Austenite line.
- Q.2
- a Given two asphalts A_1 and A_2 having penetration grades 40-50 and 70-80 respectively. Which will have higher viscosity?
 - b For above data, out of A_1 and A_2 , which can be used as a better sealant. Why?
 - c To form an asphalt aggregate mix, 1 Kg asphalt is mixed with 1 Kg of aggregates. If air content and absorbed aggregates content are equal and one fourth of total asphalt, find out weight of unabsorbed asphalt binder.