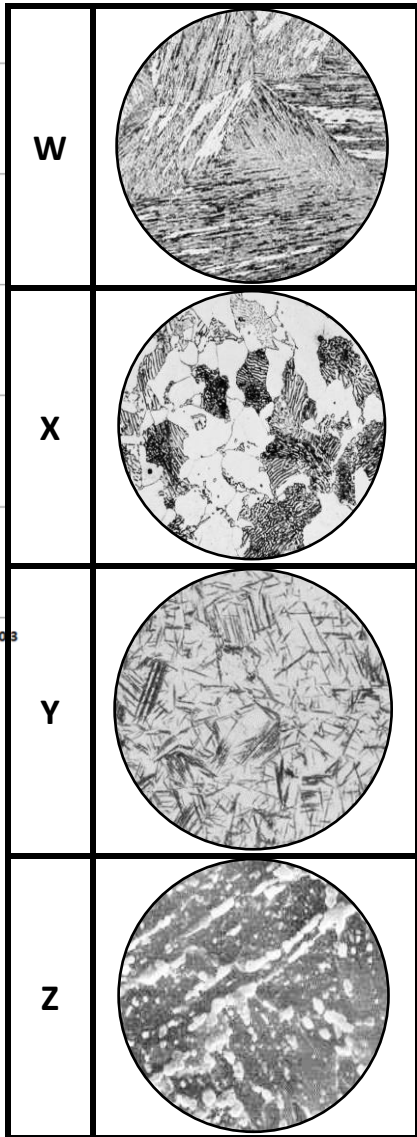
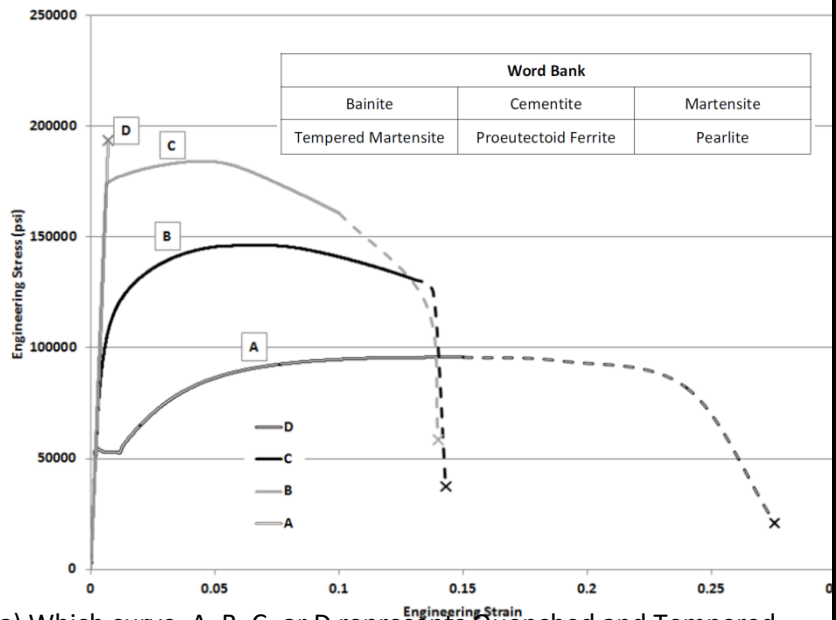


1. Given the stress-strain curves, A, B, C and D, the microstructural schematics W, X, Y and Z, and the word bank, answer the following questions.



a) Which curve, A, B, C, or D represents Quenched and Tempered 4140 Steel?

Which microstructure, W, X, Y, or Z represents the structure of Quenched and Tempered 4140 Steel?

Using word(s) from the word bank, briefly describe the microstructure.

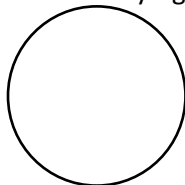
b) Which curve, A, B, C, or D represents Fully Annealed 4140 Steel?

Which microstructure, W, X, Y, or Z represents the structure of Fully Annealed 4140 Steel?

Using word(s) from the word bank, briefly describe the microstructure.

2. Sketch the microstructure for a heat-treatable aluminum in two conditions:

a) Solutionized then Artificially Aged



b) Solutionized then Overaged

