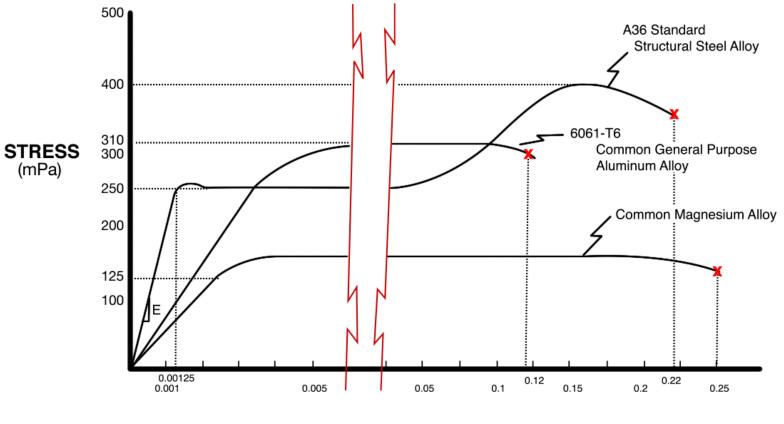
Worksheet solution



STRAIN(mm/mm)



Worksheet solution:

- E = = = = 250 = 200,000 MPa = 200 GPa What is the approximate Modulus of Elasticity for A36 Steel?
- 400 MPa ANS. What is the approximate Ultimate Strength of A36 Steel?
- What is the approximate Ultimate Strength of 6061-T6 Aluminum? 310 mPa ANS.
- What is the approximate Proportional Limit of the common Magnesium Alloy?
- 250 MPa ANS What is the approximate Yield Stress of the A36 Steel?
- Which of these material is the strongest? Why? Magnesium HIGHEST ULTIMATE STRESS Aluminum
- Which is the most ductile material? Why? Steel or Aluminum Magnesium HIGHEST E
- Which is the most brittle material? Why? Steel or Aluminum Magnesium
- Which material is the stiffest? Why? HIGHEST E ANS. Steel or Aluminum Magnesium

