



Digital Design Graphics Technology
Napa Valley College

Gary Strommen
Program Coordinator
707-256-7526
gstrommen@napavalley.edu

Engineering Reading Participation Assignment:

Read Chapter 12 – Manufacturing Materials

- Name and describe the five types of cast iron.
- Name five elements added to carbon steel. What properties of the steel is changed by the addition of each element?
- Name four shapes structural steel comes in.
- Name three nonferrous metals and name one advantage for each.
- Define the following terms:
 - Plastics
 - Thermoplastics
 - Thermosetting Plastics
- Name seven advantages of plastics over metals.
- What is the difference between mechanical and cellular rubber?
- What is the difference between closed-cell rubber and open-cell rubber?
- Name five design factors that are advantageous for rubber.