

1 ME 571 - HW 2 - Problem 3.16 - Brandon Lampe

```
# function to evaluate
fsigma.T <- function (e){
  300 + 450 * e ^ 0.5 }

# compressive stress [MPa]
sigma.C <- sc.st * fsigma.T(e)

# tensile stress [MPa]
sigma.T <- fsigma.T(e)
```

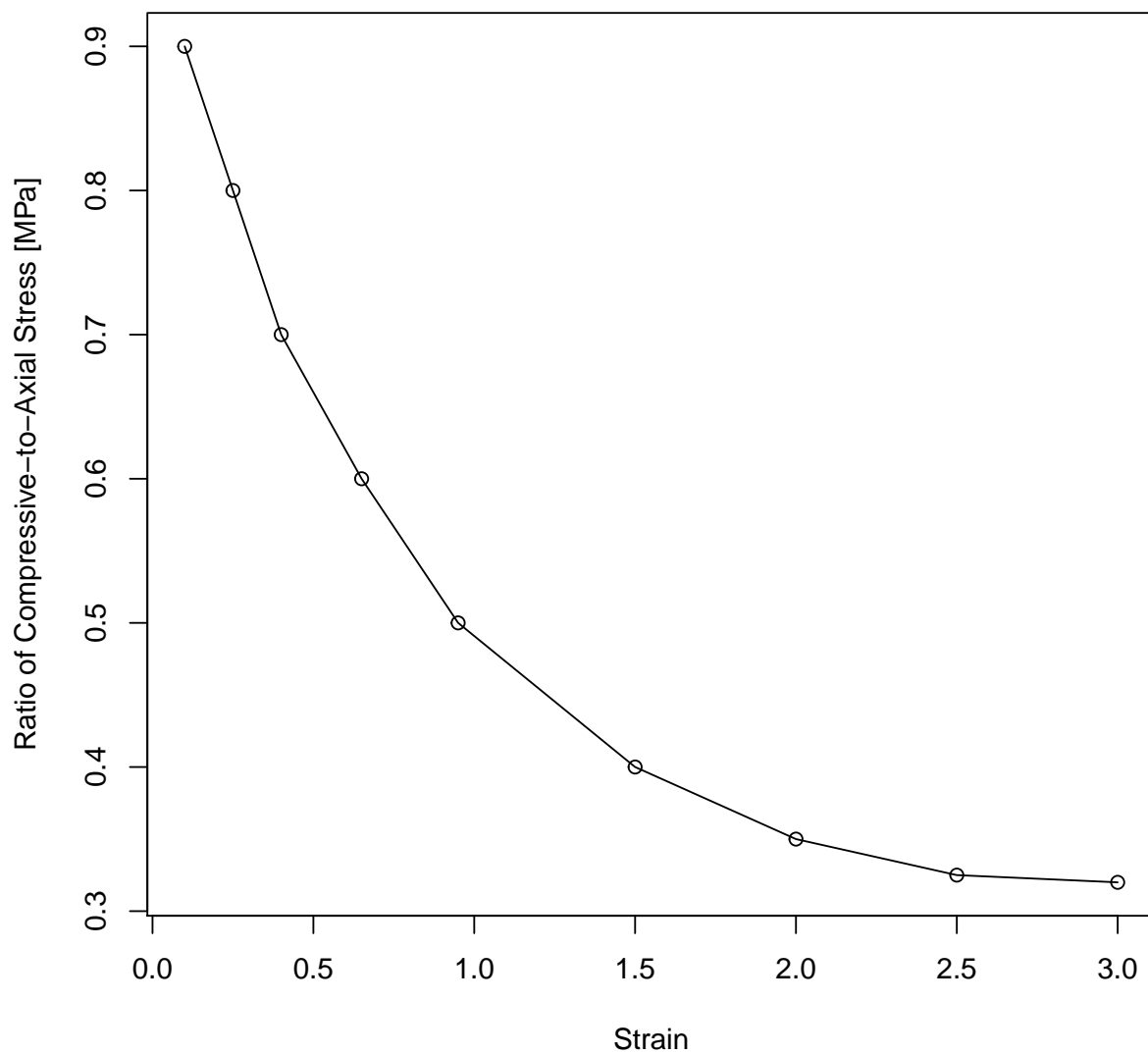


Figure 1: Data From Figure 3.17 of Class Textbook

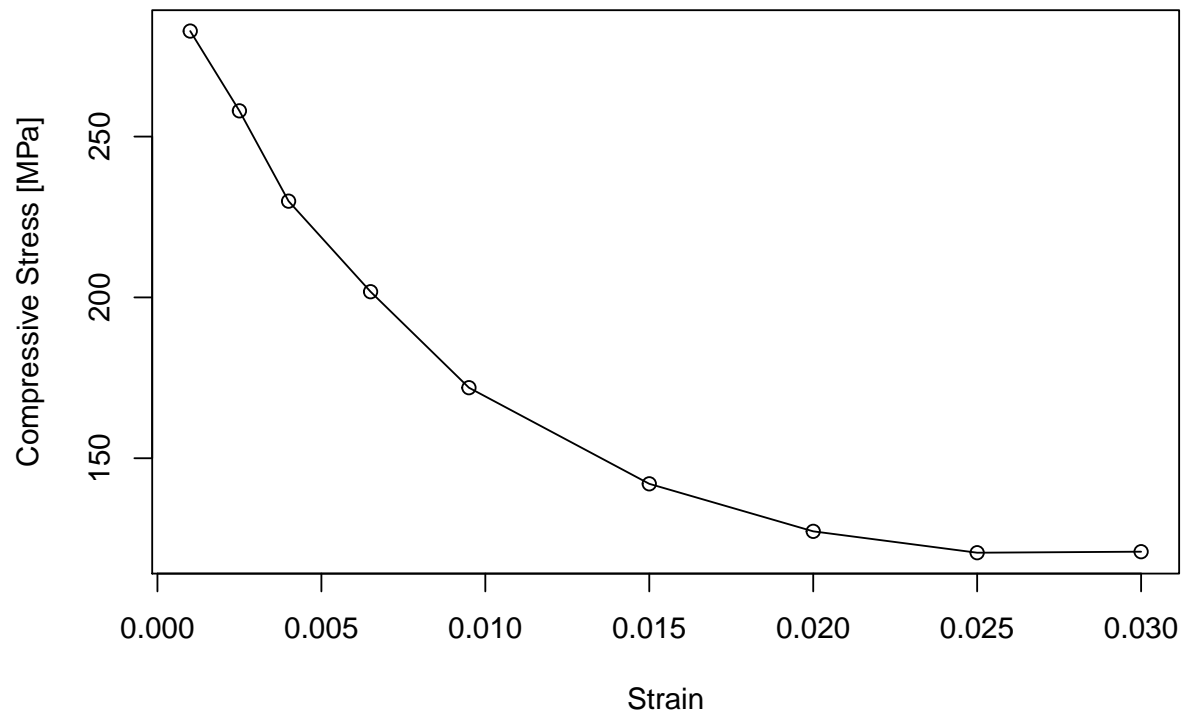


Figure 2: Compressive Stress Versus Strain

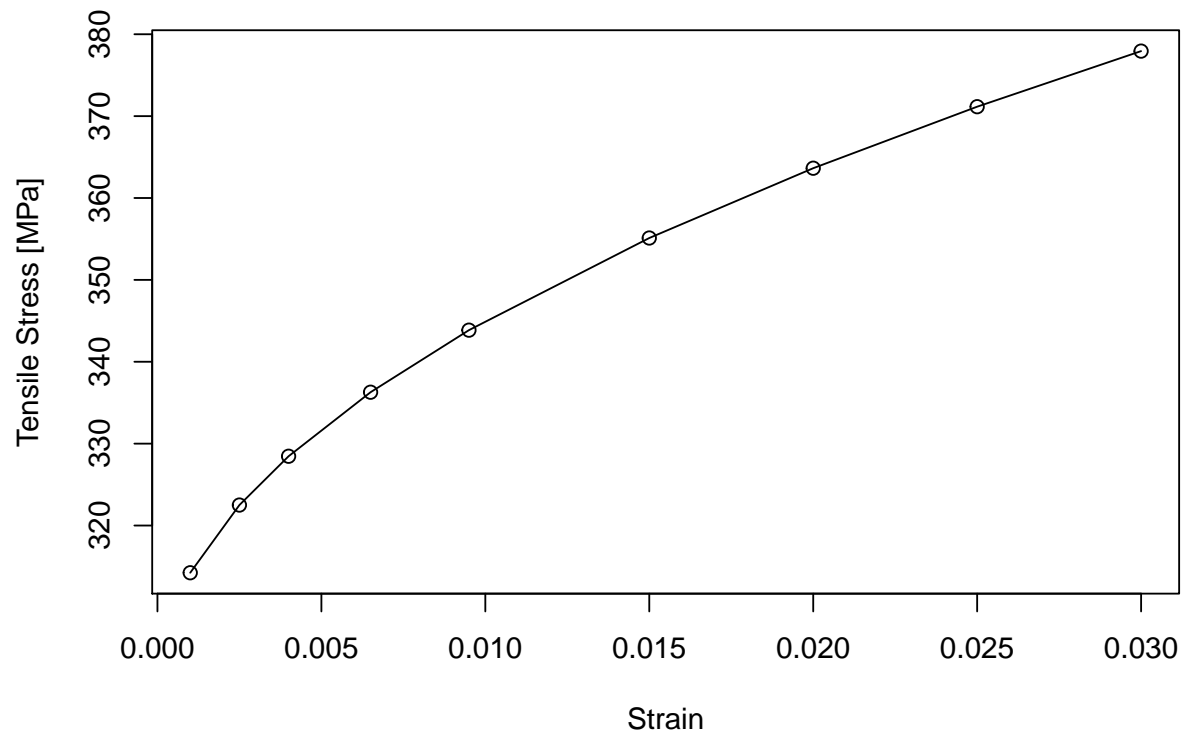


Figure 3: Tensile Stress Versus Strain