Project 2

Due 8 October 2021

Before adding a leg vise to his workbench, Dr. Smith wants to better understand some of the stresses and deflections. This project will build off the analysis already performed in Project 1.

- When fully loaded, how far does the vise screw stretch due to axial loading (25 points)
- When fully loaded, how far does the vise screw twist due to torsion? (25 points)
- When fully loaded, what is the maximum bending stress in the St. Peter's Cross mechanism (25 points)
- Do the stresses you have found seem reasonable for your chosen materials? What could be done to mitigate any problematic stresses? (15 points)
- Your overall presentation quality (legibility, professionalism, grammar) will also be worth 10 points