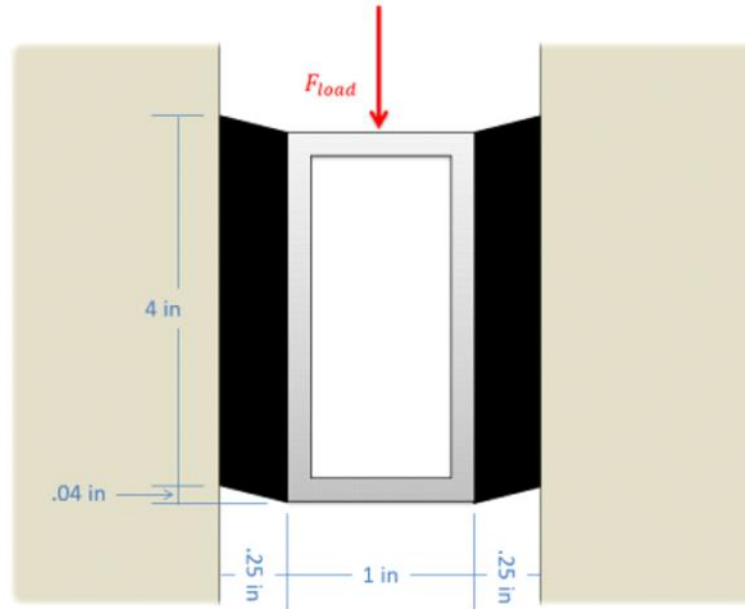


Problem 1

A piece of machinery is mounted with rubber brackets as shown to the right that are designed to dampen vibrations. If it is noticed that the bracket sags by .04 in when loaded with the machine, what is the shear strain in the rubber section of the bracket



$$\gamma = \frac{\delta}{L} = \frac{.04 \text{ in}}{.25 \text{ in}} = \boxed{.16}$$