

1. When a beam deforms, we assume “plane sections remain plane.” What does that mean physically?
2. If a material is homogenous and behaves in a linear, elastic manner, what does the stress distribution look like in the cross-section of a beam?
 - a. What happens to the stress distribution if the material behaves inelastically?
 - b. What happens to the stress distribution if the material is non-homogenous?
3. Determine the absolute maximum normal stress in the beams below. The cross-section for each beam is shown on the right.

