

# Statically Indeterminate Axially-Loaded Members

\* Statically determinate vs. indeterminate

\* 3 basic ingredients in solid (structural) mechanics:

\*  $\Rightarrow$  ① Equilibrium: forces and/or stresses

\*  $\Rightarrow$  ② Geometric Compatibility (kinematic): displacement and/or strains

\*  $\Rightarrow$  ③ Material Behavior (Constitutive Equations):

connects ① and ②  $\Leftrightarrow$   $\sigma$ - $\epsilon$  relations

