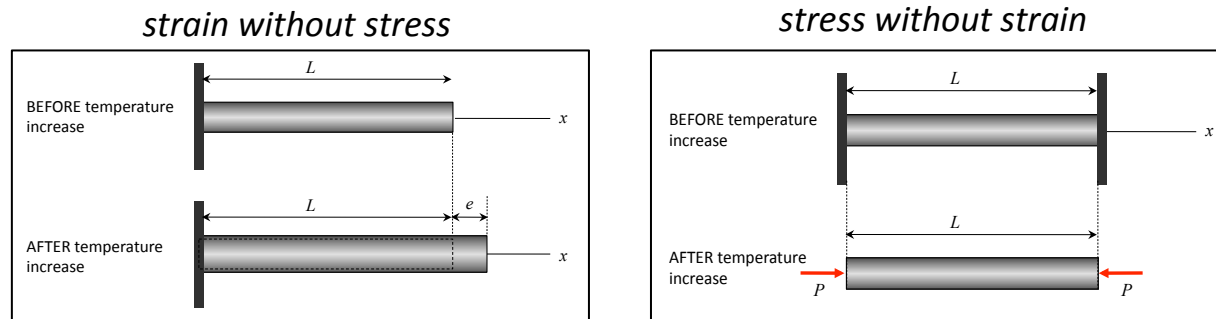


Summary: thermal deformations



The “**four-step plan**” for indeterminate structures:

1. **EQUILIBRIUM**: FBDs and equilibrium equations
2. **LOAD/DEFORMATION**: Recall sign conventions defined in lecture book.

$$e_i = \frac{F_i L_i}{E_i A_i} + \alpha_i \Delta T_i L_i$$

3. **COMPATIBILITY**: The *compatibility* step is unique for each problem. Put a focused effort in this step. Be mindful of sign conventions.
4. **SOLVE**: Solve equations resulting from Steps 1-3.