## Example

A 4.8-ft-long wire with Young's Modulus of $E=29 \times 10^{6} \mathrm{psi}$ is subjected to a $750-\mathrm{lb}$ tensile load. If the diameter of the wire is $1 / 4$ in, find
(a) the wire's elongation and,
(b) the resulting normal stress.


