

### PROBLEM 2.1

A nylon thread is subjected to a 8.5-N tension force. Knowing that  $E = 3.3$  GPa and that the length of the thread increases by 1.1%, determine (a) the diameter of the thread, (b) the stress in the thread.

### SOLUTION

(a) Strain:  $\epsilon = \frac{\delta}{L} = \frac{1.1}{100} = 0.011$

Stress:  $\sigma = E\epsilon = (3.3 \times 10^9)(0.011) = 36.3 \times 10^6$  Pa

$$\sigma = \frac{P}{A}$$

Area:  $A = \frac{P}{\sigma} = \frac{8.5}{36.3 \times 10^6} = 234.16 \times 10^{-9}$  m<sup>2</sup>

Diameter:  $d = \sqrt{\frac{4A}{\pi}} = \sqrt{\frac{(4)(234.16 \times 10^{-9})}{\pi}} = 546 \times 10^{-6}$  m

$d = 0.546$  mm ◀

(b) Stress:

$\sigma = 36.3$  MPa ◀

# Shanmugam Solution Manual

**D Keegan**



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