

**ERRATA for**  
***FE Mechanical Practice Exam***  
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**Revisions are shown in red.**

**Solution 12, p. 70:**

The solution should read as follows:

12. ~~Refer to the Intellectual Property section in the Ethics chapter of the *FE Reference Handbook*.~~

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**THE CORRECT ANSWER IS: D**

**Solution 95, p. 114:**

The solution should read as follows:

95. Refer to the Hooke's Law section in the Mechanics of Materials chapter of the *FE Reference Handbook*.

The formula for the total longitudinal strain without a temperature rise is:

$$\epsilon_{\text{axial}} = \frac{1}{E} (\sigma_l - \nu(\sigma_t + \sigma_r)) = \frac{1}{210 \times 10^3 \text{ MPa}} (23.1 \text{ MPa} - 0.24(46.2 \text{ MPa} + 0)) = 5.72 \times 10^{-5}$$

This must be converted to displacement using the following formula:

$$\epsilon_{\text{axial}} = \frac{\delta l}{l}, \text{ where } l \text{ is the length of the section under consideration}$$

$$\delta l = \epsilon_{\text{axial}} \times l$$

$$= 5.72 \times 10^{-5} \times 1,000 \text{ mm}$$

$$= 0.0572 \text{ mm}$$

**THE CORRECT ANSWER IS: A**