

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

Solution 81, p. 119:

- 81.** Refer to the **Thermal Resistance** section in the **Heat Transfer** chapter of the *FE Reference Handbook*.

Solution 82, p. 120:

- 82.** Approach:
- 1.** Determine the heat transfer rate (\dot{Q}).
 $\dot{Q} = A(T_i - T_\infty) / R''$ (refer to the **Thermal Resistance** section in the **Heat Transfer** chapter of the *FE Reference Handbook*).

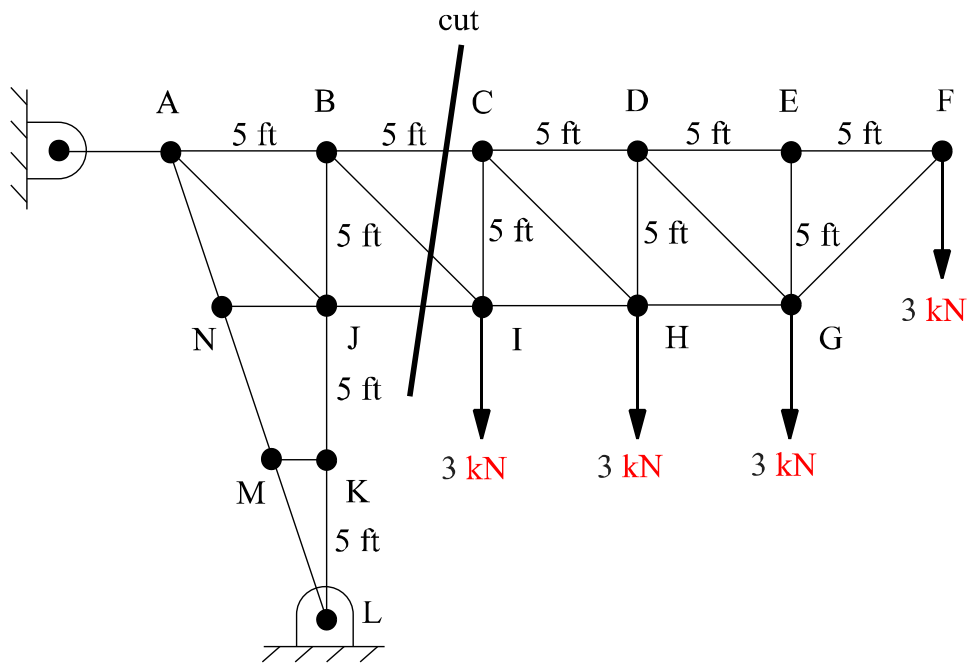
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Solution 26, p. 93:

The figure should be shown as follows:



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Question 35, p. 30:

The figure shows a four-bar linkage. If Link 3 rotates in the counterclockwise direction, the angle of the velocity vector P **as seen by A**, measured in the global X - Y coordinate frame, is most nearly:

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Question 78, p. 59:

The options should read as follows:

- A. 348
- B. **148**
- C. 1.10
- D. 0.90

Solution 78, p. 117:

The solution should read as follows:

$$\begin{aligned} \text{Re} &= \frac{v(2r_i)P}{\mu} \\ &= \frac{6 \text{ m/s}(2 \cdot 0.050 \text{ m})(10.844 \text{ kg/m}^3)}{2.0417 \times 10^{-5} \text{ kg/m}\cdot\text{s}} \\ &= \mathbf{318,676} \\ h_i &= \mathbf{0.023} \frac{k_f}{2r_i} \text{Re}^{0.8} \text{Pr}^{1/3} \left(\frac{\mu_b}{\mu_s} \right)^{0.14} \\ &= \mathbf{0.023} \left(\frac{0.0245 \text{ kJ/m}\cdot\text{K}}{2 \cdot 0.050 \text{ m}} \right) (\mathbf{318,676})^{0.8} (1.12)^{1/3} (1)^{0.14} \\ &= \mathbf{147.9} \text{ W/m}^2\cdot\text{K} \end{aligned}$$

THE CORRECT ANSWER IS: B