ERRATA for

FE Mechanical Practice Exam

ISBN: 978-1-932613-85-8

Errata posted 9/9/2019

Revisions are shown in red.

Solution 58, p. 108:

Line 3 should read as follows:

$$\frac{F_f}{\text{width}} = \rho g \frac{H}{2}(H) = 1{,}600(9.807)\frac{3}{2}(3) = \frac{70{,}610\ \text{N}}{\text{width}}; \qquad \text{width} = 1\ \text{m}$$

Previously posted errata continued on next page

ERRATA for

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Errata posted 7/15/2019

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*).

Previously posted errata continued on next page

ERRATA for

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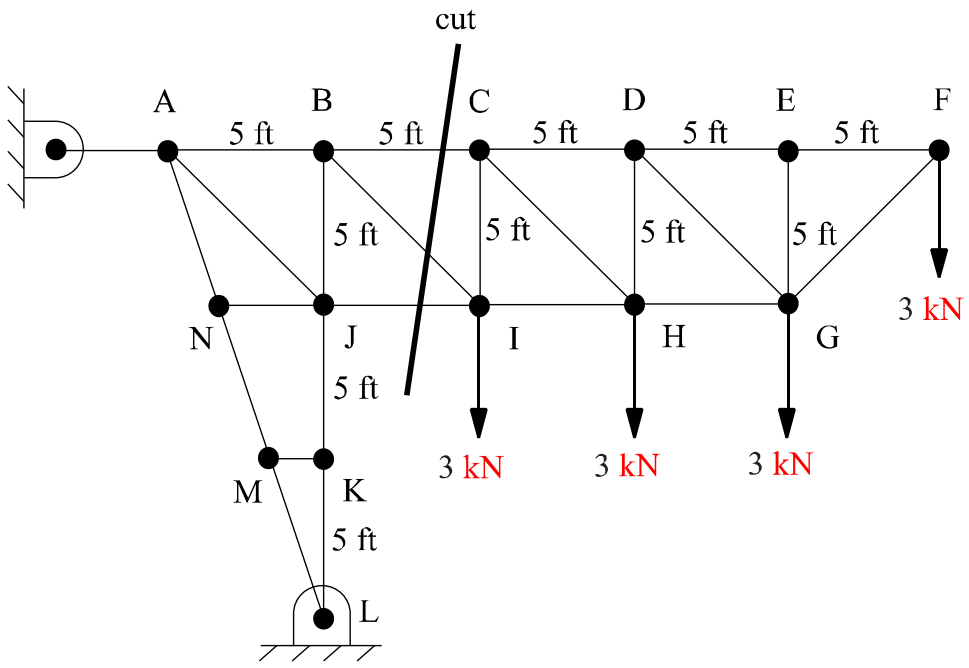
Errata posted 11/8/2018

Revisions are shown in red.

Solution 26, p. 93:

The figure should be shown as follows:



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Errata posted 10/29/2018

Revisions are shown in red.

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:

ERRATA for

FE Mechanical Practice Exam

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Errata posted 8/22/2017

Revisions are shown in red.

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:

$$\text{Re} = \frac{\text{v}(2r_i)P}{\mu}$$

$$= \frac{6\ \text{m/s}\,(2\cdot 0.050\ \text{m})\left(10.844\ \text{kg/m}^3\right)}{2.0417\times 10^{-5}\ \text{kg/m}\cdot\text{s}}$$

$$= 318,676$$

$$h_i = 0.023\frac{k_f}{2r_i}\text{Re}^{0.8}\,\text{Pr}^{1/3}\left(\frac{\mu_b}{\mu_s}\right)^{0.14}$$

$$= 0.023\left(\frac{0.0245\ \text{kJ/m}\cdot\text{K}}{2\cdot 0.050\ \text{m}}\right)(318,676)^{0.8}\,(1.12)^{1/3}\,(1)^{0.14}$$

$$= 147.9\ \text{W/m}^2\cdot\text{K}$$

THE CORRECT ANSWER IS: B