ERRATA for

FE Other Disciplines Practice Exam

ISBN: 978-1-932613-86-5

Errata posted 7/11/2019

Revisions are shown in red.

Solution 29, p. 86:

29. The period is 2 sec: $2\Delta t$ by inspecting the graph.

THE CORRECT ANSWER IS: B

Previously posted errata continued on next page

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FE Other Disciplines Practice Exam

ISBN: 978-1-932613-86-5

Errata posted 3/28/2018

Question 56, p. 41:

The last sentence should read as follows:

The mass (g) of the bullet is most nearly:

Solution 100, p. 112:

Beginning with Line 7, the solution should read as follows:

When the tube-wall resistance is neglected, R_f can be calculated.

$$\frac{1}{U_o} = \frac{A_o}{h_i A_i} + R_f + \frac{1}{h_o}$$

$$R_f = \frac{1}{U_o} - \frac{A_o}{h_i A_i} - \frac{1}{h_o}$$

$$R_f = \frac{1}{U_o} - \frac{\pi D_o L}{h_i \pi D_i L} - \frac{1}{h_o}$$

$$R_f = \frac{1}{U_o} - \frac{D_o}{h_i D_i} - \frac{1}{h_o}$$

$A_n = \pi D_n L$
D_n = tube diameter at n
L = tube length

$$= \frac{1}{700\ \text{W/(m}^2\cdot\text{K)}} - \frac{25\ \text{mm}}{\left[2{,}500\ \text{W/(m}^2\cdot\text{K)}\right](19\ \text{mm})} - \frac{1}{1{,}500\ \text{W/(m}^2\cdot\text{K)}}$$

$$= 0.00024\ \text{m}^2\cdot\text{K/W}$$

THE CORRECT ANSWER IS: B

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FE Other Disciplines Practice Exam

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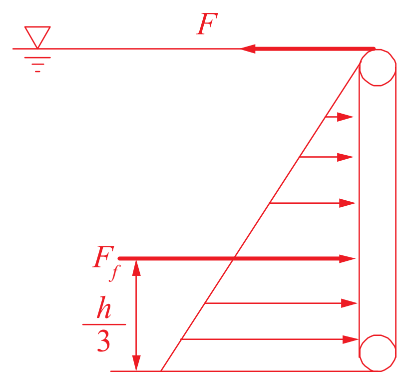
Errata posted 11/9/2018

Revisions are shown in red.

Solution 75, p. 103:

The solution should read as follows. A figure was added for clarification:

The mean pressure of the fluid acting on the gate is evaluated at the mean height, and the center of pressure is 2/3 of the height from the top (1/3 of the height measured up from the hinge). Although the mean pressure is determined at half the height of the gate (i.e., 1.5 m), the hydrostatic pressure varies linearly from D at the surface, to a maximum value at the bottom (hinge location). This results in the center of pressure being located 1/3 of the distance from the base of the triangular pressure distribution graph to the apex (at the fluid surface). The total force of the fluid is:



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$A_n = \pi D_n L$
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