# ERRATA for

***FE Other Disciplines Practice Exam***

ISBN: 978-1-932613-86-5



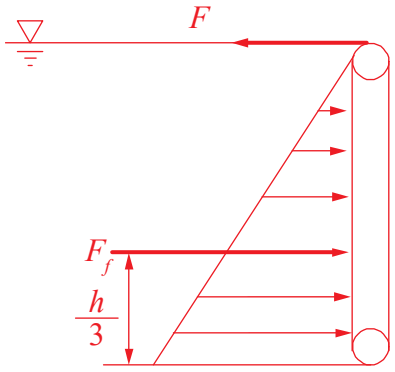
Errata posted 11/9/2018

**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:




*Previously posted errata continued on next page*

# ERRATA for

***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

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

$$= 0.00024 \text{ m}^2\text{·K/W}$$

**THE CORRECT ANSWER IS: B**