ERRATA for  
**PE Chemical Practice Exam**  
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Revisions are shown in red.

**Question 28:**
Sentence 4 should read as follows:

The rate of heat transfer by conduction-convection \( \frac{Q}{A} \) [Btu/(ft\(^2\)-hr)] can be assumed to be 0.38 \((\Delta T)^{1.25}\) where \(\Delta T\) is the temperature difference (°F) between the roof and the air.

**Solution 13:**
The equations following paragraphs two and three should read as follows:

\[
\Delta h_{\text{sensible}} = h_{L,440^\circ F} - h_{L,120^\circ F} = 419 \text{ Btu/lb} - 89 \text{ Btu/lb} = 330 \text{ Btu/lb}
\]

\[
\Delta h_{\text{total}} = h_{\text{vap,440^\circ F}} - h_{L,120^\circ F} = 1,205 \text{ Btu/lb} - 89 \text{ Btu/lb} = 1,116 \text{ Btu/lb}
\]

**Solution 34:**
Line 12 should read as follows:

\[
\frac{1}{h_{\text{foul}}} = \frac{1}{U_o} - \frac{\delta_{\text{brick}}}{k_{\text{brick}}} - \frac{\delta_{\text{shell}}}{k_{\text{shell}}} - \frac{1}{h_r}
\]

**Solution 61:**
The last five lines of the solution should read as follows:

The ratio of liquid densities \(\psi\) equals 1 since the absorbing fluid is water.

\[
G^2 = \frac{(0.085)(0.0909)(62.4)(32.2)}{(32)(1)(1.11)^{0.2}} = 0.475
\]

\[
G = 0.6893 \text{ lb/(ft}^2\text{-sec})
\]

\[
\text{Area} = \frac{G'}{G} = \frac{8.34}{0.6983} = 12.10 \text{ ft}^2 = \frac{\pi D^2}{4}
\]

\[
D = \sqrt{\frac{(12.10)(4)}{\pi}} = 3.90 \text{ ft}
\]