

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 Q/A [Btu/(ft²-hr)] can be assumed to be $0.38 (\Delta T)^{1.25}$ where ΔT is the temperature difference (°F) between the roof and the air.

Solution 13:

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

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

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

Solution 34:

Line 12 should read as follows:

$$\frac{1}{h_{\text{foul}}} = \frac{1}{U_o} - \frac{\delta_{\text{brick}}}{k_{\text{brick}}} - \frac{\delta_{\text{shell}}}{k_{\text{shell}}} - \frac{1}{h_o}$$