ERRATA for

PE Chemical Sample Questions and Solutions

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Question 104, p. 9:

The third sentence should read as follows:

The flow rate (lb/min) of the recycle is most nearly:

Question 130, p. 25:

The heat flux data should read as follows:

Heat flux 650 Btu/(hr-ft^2)

Solution 104, p. 56:

Line 12 should read as follows:

$$X_{\mathrm{KNO_3}\ R} = 15.4 \text{ lb } \mathrm{KNO_3}/(15.4 \text{ lb } \mathrm{KNO_3} + 33.6 \text{ lb } \mathrm{H_2O}) = 0.3141$$

THE CORRECT ANSWER IS (B)

Solution 106, p. 57:

The first sentence should read as follows:

First, determine how much fuel was burned to produce 100 lb mole of dry flue gas (CO and CO_2 only).

Solution 135, p. 75:

Line 2 should read as follows:

Notation: [ ] = activity and ( ) = mol/L

$$K_1 = \frac{[\mathrm{H^+}][\mathrm{H_2PO_4^-}]}{[\mathrm{H_3PO_4}]} = \frac{(\mathrm{H^+})\gamma_{\pm}(\mathrm{H_2PO_4^-})\gamma_{\pm}}{(\mathrm{H_3PO_4})\gamma\,\mathrm{u}} = 7.516 \times 10^{-3}$$

$$= \frac{(x)0.8(x)0.8}{(1-x)1.0} = 7.516 \times 10^{-3}$$

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Solution 136, p. 76:

The third line should read as follows:

That is, for $4/3\ Al + O_2 \leftrightarrow 2/3\ Al_2O_3$