

***Chemical Engineering: FE/EIT Exam Preparation 2007, Third Edition***  
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The following errata and corrections have been identified for this book.

Page, item	Text says	Change to
p. 1, <b>Units of Force</b> , definition of slug, numerator of fraction	1 pound – force	1 pound-force [change minus sign to hyphen]
p. 3, Table 1.4, row 16	$3.93 \times 10^4$	$3.93 \times 10^{-4}$
p. 13, line 14	$\bar{\Sigma}$	$\Sigma$ [delete overbar]
p. 16, line 2	$n = l$	$n = 1$
p. 21, equation (b)	$C(\uparrow)$	$C(\beta)$
p. 20, line 13 (end of equation)	$\dots Q - W$	$\dots Q + W$
p. 31, Energy balance equations (2 instances)	$\dots Q - W \dots$	$\dots Q + W \dots$
p. 32, lines 2-3	Work done by the system is positive, whereas work done on the system is negative.	Work done on the system is positive, whereas work done by the system is negative.
line 4	Work = force $\leftrightarrow$ distance	Work = force $\times$ distance
line 12 (energy equation)	subscript E subscript B $\dots = Q - W_S$	subscript O subscript I $\dots = Q + W_S$
line 14 (energy equation)	$H + PE + KE = Q - W_S$	$\Delta(H + PE + KE) = Q + W_S$
line 18	$H = Q - W_S$	$\Delta H = Q + W_S$
p. 35, <b>Thermodynamic Relations for an Ideal Gas</b> (9 instances)	$\bar{V}, \bar{U}, \bar{H}$	$\hat{V}, \hat{U}, \hat{H}$ [change all overbars to “hats” ^ in these equations]
p. 36 (5 instances)		[change all overbars to “hats” ^ in these equations]
4 <sup>th</sup> equation		[add “hat” ^ over V in this equation—2 instances]
p. 37		[change overbar on V to “hat” ^ in these equations—5]

		instances]
p. 38		[change overbar on V to “hat” ^ in these equations—3 instances]
p. 41, 3 <sup>rd</sup> equation		[add ellipsis . . . after + sign at end of equation]  [change overbar on V to “hat” ^ on this page—5 instances]
p. 42, <b>Third Law of Thermodynamics</b>		[change overbar on S, H to “hat” ^ in this equation]
p. 45, <b>Other Calculations</b>		[change underbar on H to overhead “hat” ^ in these equations—10 instances]
p. 46		[change overbar on H to “hat” ^ in these equations—6 instances]
p. 49, solution 3.2, lines 3 and 5	$T^2$	T
p. 50		[change overbar on V to “hat” ^ on this page—19 instances]
solution 3.3, line 1		[add “hat” ^ over V in this equation—2 instances]
p. 51, solution 3.7, line 8		[insert = sign after first $dT$ in equation]
p. 52, solution 3.10		[Change overbars on G, H, S to hats—12 instances]
p. 53, line 1 solution 3.11, line 2  lines 7, 17 (2 instances) line 8 line 9 line 11	$(U + PE + KE)_E (U + PE + KE)_B = (H + PE + KE)_H$ $(H + PE + KE)_O + Q - W$ $\dots Q - W$ $U = Q - W$ $U = +110 \text{ kj } W = -200 \text{ kj}$ $(-200)$	[Change overbar on H, S to “hat”]  $(U + PE + KE)_E - (U + PE + KE)_B = (H + PE + KE)_H - (H + PE + KE)_O + Q + W$ $\dots Q + W$ $\Delta U = Q + W$ $\Delta U = +110 \text{ kj } W = +200 \text{ kj}$ $(+200)$

p. 65, last equation		[change $a$ in numerator to subscript—2 instances]
p. 76, <b>Molecularity and Order of Reaction</b> , last line	$a, b \uparrow d$	$a, b, \dots d$
p. 82, <b>Michaelis-Menten Equation</b> , line 7 line 20	$A \delta R$ $A \delta R$	$A \rightarrow R$ $A \rightarrow R$
p. 91, solution 5.5, last line, denominator of fraction	kg mol/liter <sup>2</sup>	(kg mol/liter) <sup>2</sup>
p. 91, solution 5.7, line 4 line 5	$0.13863 \leftrightarrow t$ $T$	$0.13863 \times t$ $t$
p. 107, Eqs. 7.14 and 7.15	0.173 [2 instances]	0.1713 [2 instances]
p. 115, problem 7.4 line 8 of table	ft <sup>2</sup>	ft <sup>2</sup>
p. 119, solution 7.4, line 2 (2 instances)	( $-T$ )	( $\Delta T$ )
p. 125, 1 <sup>st</sup> line after Eq. 8.9a	$s^{-1}$	$s^{-1}$ [superscript negative 1]
p. 126, Definition of $q$	cuft/min	ft <sup>3</sup> /min
p.128, Table 8.3, row 7	Size 16-24	Size 16-24 inch
p.129, Table 8.4, last 2 rows, columns 2 and 3	$\vartheta$ [4 instances]	$\beta$ [4 instances]
p.132, after Eq. 8.33, line 3	f <sup>3</sup>	ft <sup>3</sup>
p.134, solution 8.1, 3 <sup>rd</sup> line	1.013E5N	$1.013 \times 10^5$ N
p. 141, last equation on page	$\tau D$	$\tau_D$ [subscript D)
p.149, solution 9.3(b), 1 <sup>st</sup> line	$\Delta e_{\max}$	$\Delta e_{\max}$ [make “max” subscript]
p.165, solution 10.11, line 10	( $\Sigma$ )	( $\lambda$ )
p.166, line 7 up from bottom of page	$\Sigma$	$\lambda$
pp. 213-215 (24 instances)	$\bar{h}, \bar{H}$	$\hat{h}, \hat{H}$ [change overbars to “hats” ^ on all h, and H]