

## ET CORRECTIONS LIST

2009 May 1

This document lists errors that have been found in the textbook and/or corrections that should be made in the next printing. There are two versions of this document. One is sorted by page number (to help locate corrections on a particular page); the other is sorted by date (to help locate the most recent corrections that have been added to the list).

I hope to keep this document reasonably up-to-date. Your assistance in notifying me [myers@engr.wisc.edu] about other corrections you think should be made will be appreciated.

<b>Date</b>	<b>Page</b>	<b>Location</b>	<b>Correction</b>
2009-04-28	vi	Upper left corner	Page number should be bold.
2009-04-28	viii	Upper left corner	Page number should be bold.
2007-05-29	iii	Lower left	Delete street address for AMCHT Publications.
2007-05-29	6	Lines 2 and 3	Remove indents on both lines.
2007-05-29	6	13 lines up	Remove indent.
2007-05-29	6	3 lines up	Remove indent.
2007-05-29	7	Lines 4 and 5	Remove indents on both lines.
2007-05-29	8	Lines 8 and 9	Remove indents on both lines.
2007-05-29	8	1 line up	Remove indent.
2007-05-29	9	Lines 7, 14 and 15	Remove indents.
2007-05-29	10	Lines 5, 6 and 7	Remove indents.
2007-05-29	11	1, 2, 9 and 20 lines up	Remove indents.
2007-05-29	12	Line 1	Remove indent.
2007-05-29	12	5 lines up	Remove indent.
2007-05-29	13	Lines 4 and 9-13	Remove indents.
2007-05-29	14	Lines 1-5	Remove indents.
2007-05-29	14	(1-19)	Remove indent.
2007-05-29	16	4 and 22 lines up	Remove indents.
2007-05-29	18	Lines 2-9	Remove indents.
2007-05-29	20	Line 9 and (1-29)	Remove indents.
2007-05-29	22	1-7 lines up	Remove indents.
2007-05-29	23	Lines 1-10	Remove indents.
2007-05-29	33	(2-1)	Remove indent.
2007-05-29	44	(2-13) and (2-14)	Remove indents.
2007-05-29	45	(2-17)	Remove indent.
2007-05-29	48	(2-19)	Remove indent.
2007-05-29	50	(2-22)	Remove indent.
2007-05-29	52	(2-24)	Remove indent.
2007-05-29	56	<i>T-v</i> sketch	Arrowheads on process paths are too large.
2007-05-29	59	<i>T-v</i> sketch	Arrowhead on isothermal line is too large.

Date	Page	Location	Correction
2009-04-28	65	Line 11	Change $10^3 \times v_1$ to $10^3 v_1$ .
2007-05-29	68	1-7 lines up	Remove indents.
2007-05-29	69	Lines 1 and 2	Remove indents.
2007-05-29	84	(3-3)	Remove indent.
2007-05-29	85	(3-4)	Remove indent.
2007-05-29	100	Line 16	Change $g$ to $\mathbf{g}$ .
2007-05-29	100	(3-30)	Change $g$ to $\mathbf{g}$ .
2007-05-29	114	$T$ - $v$ sketch	Arrowhead on isothermal line is too large.
2007-05-29	136	Problem 3•15	Revise problem since Appendix C•5 now contains data for $c_v$ .
2007-05-29	137	Problem 3•18	Change $\mathbf{g}_o$ to $\mathbf{g}_0$ in two places.
2007-05-29	137	Problem 3•23	Delete comma after potential energy.
2007-05-29	141	Problem 3•47	Change mass from 0.1 lbm to 0.05 lbm.
2007-05-29	141	Problem 3•47	Change time increment from one minute to two minutes.
2007-05-29	141	Problem 3•47	Change work from 200 Btu to 10 Btu.
2007-05-29	143	Problem 3•60	Repair $\text{m}^3 / \text{s}$ .
2007-05-29	150	Problem 3•110	Repair negative sign in exponent. That is, change $10^{-5}$ to $10^{-5}$ .
2007-05-29	156	3 and 4 lines up	Change $A$ to $\mathbf{A}$ in both lines.
2007-05-29	164	Line 11	Change $\Delta Wu$ to $\Delta W_u$ .
2009-04-28	181	Line 7	Change 3.03246, 2.51480 and 0.2546 to 6.2189, 5.7016 and 0.2542.
2007-06-01	233	Problem 4•31	Change data in the table to the following:

$P$	$T$	120	140
160	$v$	.30578	.32774
	$h$	120.07	125.33
	$s$	.22339	
170	$v$	.28212	.30376
	$h$	119.37	124.76
	$s$		

2007-05-29	233	Problem 4•33, line 3	Change $P, v$ and $u$ to $\mathbf{P}, v$ and $\mathbf{u}$ .
2007-06-15	234	Problem 4•37	Revise the problem statement to the following: <b>4•37</b> On a graph of pressure (log scale, $P = 10$ to 10,000 psia) versus temperature ( $T = 250$ to 350 F) show (to scale) the vapor dome for water and curves of constant $u$ and constant $h$ in the compressed-liquid region that pass through the saturated-liquid state (1) at 300 F. Also, show the incompressible-substance approximations to these same curves.
2007-06-15	234	Problem 4•39	Revise the problem statement to the following: <b>4•39</b> On a graph of pressure (log scale, $P = 10$ to 10,000 psia) versus enthalpy ( $h = 250$ to 300 Btu/lbm) show (to scale) the vapor dome for water and curves of constant $T, u$ and $s$ in the compressed-liquid region that pass through the saturated-liquid state at 300 F. Also, show the

Date	Page	Location	Correction
			incompressible-substance approximation to these same curves.
2007-06-15	234	Problem 4•42	Revise the problem statement to the following: <b>4•42</b> On a graph of pressure (log scale, $P = 10$ to $10,000$ psia) versus temperature ( $T = 250$ to $350$ F) show (to scale) the vapor dome for water and curves of constant $h$ and constant $s$ in the compressed-liquid region that pass through the saturated-liquid state (1) at $300$ F. Also, show the incompressible-substance approximations to these same curves.
2007-05-29	243	Problem 4•104, line 1	Change tab from 30 to 33.
2007-05-29	243	Problem 4•105, line 1	Change tab from 30 to 33.
2007-05-29	243	Problem 4•106, line 1	Change tab from 30 to 33.
2007-05-29	243	Problem 4•107, line 1	Change tab from 30 to 33.
2007-05-29	246	Problem 4•122, line 1	Insert a space after rigid,
2009-04-28	345	Problem 5•62, line 6	Change C•5 to C•5 to account for variable specific heats.
2009-05-01	496	Line 20	Change equation number from (7-46) to (7-49).
2009-04-28	524	Problem 7•93, line 4	Change CO to CO <sub>2</sub> .
2009-04-28	527	Problem 7•119, line 2	Change 4200 R to 2500 K.
2009-04-28	528	Problem 7•128, line 2	Change of diatomic to of diatomic (i.e., delete extra space between words.
2009-04-28	649	Header	Change <b>D•1•2</b> to <b>D•1•3</b> Change <b>Liquid-vapor saturation (pressure)</b> to <b>Superheated vapor</b>
2009-04-28	657	Header	Change <b>EQUAL 11</b> to <b>EQUIL11</b> .
2007-05-29	659	Problem H•2	Adjust table to match table on page 685.
2009-04-28	660	Problem H•9, line 5 and line 7	Change $\bar{s} = 1$ to $\bar{s} = 0$ .
2009-04-28	666	Problem H•47, line 12	Delete comma after 75.
2009-05-01	672	Answer to 2•42	Change 3.930 to 3.928.
2009-04-28	681	Answers to 7•14 Answer to 7•32	Change 37.86, 11.05, 1.343 and 122.5 to 37.84, 11.06, 1.342 and 122.8. Change -0.695 to -0.693.
2009-04-28	682	Problem 7•88	Change font of problem number from Times to Helvetica.
2009-04-28	683	Answers to 7•100 Answers to 7•102	Change 0.4482, 0.3277 and 0.2241 to 0.2844, 0.2874 and 0.4281. Change $1.031 \times 10^{-16}$ to $9.010 \times 10^{-17}$ and $6.889 \times 10^{-59}$ to $9.023 \times 10^{-59}$ .
2009-04-28	685	Answers to H•42 (b) Answers to H•42 (c)	Change 303.2 and 0.04819 to 303.1 and 0.04820. Change 0.02486 and 587.7 to 0.02485 and 588.0.
2007-05-29	700	Back endsheet	Change $\mathbf{g}_o$ to $\mathbf{g}_0$ .