

Principles of Highway Engineering and Traffic Analysis, 5th Edition

First Printing Errata

U.S. Customary units edition

Date Revised: 4/6/15

Chapter	Fig. or Table	Example or Problem	Page	Revision
2		2.3	18	Insert a space between "lb" and "car" after "2500-"
2		2.6	25	In problem statement, gear reduction ratio should be "8 to 1" instead of "5 to 1". In solution, speed should be "25" instead of "20", there should be a "2" in the denominator of the engine speed equation, and the weight in the last equation should be "2800" instead of "3000".
2		2.17	44	Problem statement should refer to Example 2.8 rather than Example 2.9
2		2.33	45	In first sentence, insert "level" between "with" and "wet".
		2.35	45	Answer "a" should be 242.9 (not 217.9); Answer "b" should be 197.0 (not 172.0); Answer "c" should be 161.9 (not 136.9); Answer "d" should be 160.1 (not 135.1)
2		2.36	45	Answer "b" should be 13.26 (not 15.53)
3		3.1	52	In first paragraph, "final grade of -2.0%" should be "final grade of -1.0%"
3		3.2	53	In elevation of PVC equation at bottom of page, the last plus sign should be an equals sign.
3		3.8	66	"b" should be set to -0.025, not -2.5
3		3.10	69	Change "Example 3.8" to "Example 3.9" in solution
3		3.17	86	Instances of "1198.65" and "1192.65" in the calculations should be "1199.63" and "1193.63", respectively. Also, the SSD value of "479.3" should be "479.5". These values match with the correct values given in the text wording.
3		3.18	90	PVI crest station calculation: last term should be "(1 + 52.15) / 2", rather than "(1 + 52.15 / 2)" and answer should be "40 + 76.075". Elevation of PVT sag calculation: "Lc" should be "Ls". Numeric result is correct as-is.
3		3.18	90	PVTc station calculation should be "station of PVCc + Lc" not "station of PVI + Lc". All numbers are correct.
3		3.53	96	Answer "a" should be 168 + 45.44 (not 168 + 45.43); Answer "b" should be 156 + 45.44 (not 156 + 45.43)
4			101	Second sentence, "...scale of 1 of 5..." should read "...0 to 5...".
4			120	In the first sentence, insert "(rigid and flexible)" between "design" and "relates"
4		4.26	134	CBR = 2 (not 10); 10-inch rigid pavement (not 8-inch); Answer "c" should be 17.14 years (not 18.44)
4		4.27	134	Change "one 20K single axle and one 20K tandem" to "one 20-kip single axle and one 20-kip tandem"
4		4.29	134	The answer options should read "a) 12 b) 15 c) 20 d) 24"
5			143	In sentence above Eq. 5.17, "q _{ca} " should be "q _{cap} "
5		5.8	155	Arrival rate function in problem statement should be "17.2 - 0.2t", not "27.2 - 0.2t".
6			181	Section 6.4.1: Remove bullets regarding 2-ft median lateral clearance and five or more lanes in each travel direction; revise bullet about interchange spacing to "6-mi or greater ramp spacing".
6			181	Sentence immediately following bulleted list: change "70 mi/h" to "75.4" mi/h.
6			184	Definition for TRD in Eq. 6.2 should say "3.22 TRD ^{0.84} = adjustment for total ramp density in mi/h (with TRD in ramps/mi)."
6	6.6		188	For "> 5-6" upgrade %, second range for grade length should be "0.25-0.30" instead of "0.35-0.30".
6	6.8		189	Remove greater than signs that are in front of "4-5"
6		6.3	199	italicize "TLC" and "LCL", and "LCL" should have the "L" subscripted
6	6.15		206	"(mi/h)" text below "Average travel speed" heading should be deleted. These values are unitless.
6	6.16		207	"(mi/h)" text below "Average travel speed" heading should be deleted. These values are unitless.
6		6.7	213	Table references to f _{LS} and f _A adjustment factors should be 6.14 and 6.13, respectively, instead of 6.16 and 6.15.
6		6.7	214	Analysis flow rates used in PTSF calculations should be 671 and 490, instead of 698 and 506. BPTSF = 60.9, fnp = 28.63, PTSF = 77.4.
6		6.8	218	Value of '1770' (from Table 6.1) used in this example should be '1735'.
6		6.25	222	Problem statement should refer to Fig. 6.8 rather than 6.7
7			225	Change "total of eight warrants" to "total of nine warrants"
7			242	Revised text for second bullet, and moved to third bullet position. Additional text added before Figure 7.10. Layout of Fig. 7.10 revised to accommodate added text. A revised page 242 can be obtained from the following location, http://swash.ce.ufl.edu/RevisedPage242.pdf

7		7.11	259	For the paragraph in the middle of the page, change " λ_3 " to " v_3 "
7		7.16	267	First paragraph of solution text, change "readily calculation" to "readily calculated"
8		8.6	298	The second sentence should read "An exclusive bus lane is constructed that reduces bus travel time to 10 minutes and the bus fare is reduced to \$0.50." Question "a." should read "Determine the modal distribution of trips after the lane constructed and the bus fare is lowered." The bus utility equation should read " $U_b = -0.2(0.5) - 0.01(10) = -0.2$ ".
8		8.7	300	For U_{B1} and U_{B2} calculations, "20.3" should be "-0.3". For U_{A2} calculation, "0.6 2 0.3" should be "0.6 - 0.3".
8		8.30	328	"2" at end of equation for t_1 should be superscripted.
8		8.41	330	Answer "b)" should be 1153.5, answer "c)" should be 1364.6, answer "d)" should be 1585.8
Index			333	"Interchange density adjustment" should be "Ramp density adjustment" and moved to appropriate alphabetical position
Index			334	Page numbers for "stopping sight distance and design of" should be "63-71" instead of "64-71"
Index			335	Page number for "signal controller mode delay adjustment" should be "271" instead of "272"