

Errors in the text.

- Page 5. In Practice Problem 2, part (d) refers to #3 and #2 instead of to (c) and (b).
- Page 6. Subparts of Practice Problem 3 should be labeled (a), (b), (c), (d), (e), and not 1, 2, 3, 4, 5.
- Page 8. The last row in Table 1-1 should be deleted.
- Page 51. Table 1-14 the second entry reads “ $n > 5$ ” The “ $</p>$ ” should be deleted.
- Page 109. Line 2 of the left column, remainder theorem should be division theorem.
- Page 130. Since the answer key contains all of exercise 3, exercise 3 should be blue and part (a) should be changed back to black.
- Page 148 and 641. There is an inconsistency of exercise numbers. The easiest way to fix this is to make these changes:
 - Page 148, make exercises 22 and 24 blue, and make exercises 23 and 25 black
 - Page 641, change the numbering on exercises 23 and 25 to 22 and 24, respectively.
 - Page 641, in exercise 31 change it to read, This statement is similar to Exercise 24.
- Page 195. Change Exercise 17(a) to read:

$$A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$$
- Page 220. There is a missing parenthesis in the solution to exercise 16(c). In particular, the third line should read

$$A \cap (A \cup B) = (A \cap \emptyset) \cup (A \cap B)$$
- Page 243. In Exercise 4, remove the sentence How many gates are saved by using the simpler expression?
- Page 266. In Figure 4.20(b), the line leading from 3 to 6 should be an arrow from 3 to 6 (that is, there should be an arrowhead on the right end of the line).
- Page 268. Exercise 24 (a) should read “... English word for x has one fewer letter than the English ...”.
- Pages 278 and 280?? There are several strange line breaks, in Exercises 8 and 9.
- Page 282. Something is wrong with exercise 25, since the relations in Problem 24 are meaningless. The simplest fix might be to change “what is the meaning of” to “give an arrow diagram for”, and I believe that is what I did in the answer key??
- Page 298. Exercise 6(b) the function should be $g(x) = 7x + 5$
- Page 299. Exercise 6 (b) should consistently refer to “s o n” never “n o s”.
- Page 300. Exercise 26 should refer to exercise 25 rather than exercise 4.
- Page 311. In exercise 5(a) delete the words “depicted above”.
- Page 312. In exercise 9, the first line should start “For a non-empty finite set of numbers..” and the fourth/fifth line should read $A = P(\{1,2,3,4\}) - \{\emptyset\}$.

- Page 316. In exercise 16, the line before (*) should be “If $a \neq b$ and $(a, b) \in R$, then $(b, a) \notin R$.” In (*) itself, the conclusion should be $\neq r$ instead of r .
- Page 320. The proof of theorem 2 should refer to exercise 23, not 21.
- Page 322. The table that goes with #7 was placed in the middle of #5!!
- Page 323. Exercise 12 has an extra (to the left of Billie.
- Page 323. Exercise 15(d) should have as its conclusion “ $R^{-1} \circ R$ is symmetric.”
- Page 333. Exercises 14, 16, and 17 (intro, b, & e) should include the word “positive” before the word “number”.
- Page 344. In exercise 13 capitalize Newton.
- Page 363. In exercise 27, I think the steps in the algorithm should either be bulleted or be numbered in some way other than [27a], [27b], [27c]??
- Page 364. In exercise 32, probably remove the use of asterisk (*) for multiplication in the formula $c_n = 2 * c_{n/2} + 3n$
- Page 384. Exercise 17 seems to explain the solution method that the Solution Manual uses to solve Exercise 16. In particular, the Solution Manual ignores the HINT in Exercise 16(a).
- Page 385. Exercise 22(a) has a strange line break?
- Page 465. Exercise 10 seems out of place in this section.
- Page 465. The answer key is incorrect for exercise 18, although the Solution Manual should be ok.
- Page 480. The answer key actually answers #12 rather than #11.
- Page 480. Exercises 15 and 16. The answer key and solution manual start at deuce rather than 0-0. (But in 6.6, exercises 31 and 32 refer back to these exercises, and in 6.6 the solution DOES start at 0-0.)
- Page 500. Exercise 5. The solution in the answer key seems to be based on a six-sided die rather than a four-sided die.
- Page 501. Exercise 32 is missing a question mark at the end of the question.
- Page 518. Exercise 12 should be blue.
- Page 565. Exercise 11(d) should be black.
- Page 566. The footnotes should be aligned left based on the two-column layout.
- Page 595. In exercise 17 the $[k/2]$ expressions should use the floor function symbols instead.
- Page 608. Probably exercise 21 should read, “... from Harrisburg, PA. to Burlington, VT, ...”
- Page 608. In Table 7-22 the mileage from VT to NY reads “173x” and the “x” should be deleted.
- Page 609, Exercise 25, make the last sentence read, “What is the largest possible value for $\deg(x) + \deg(y)$ if G is not Hamiltonian.”

Solutions

- Page 633. Second line of #16, remainder theorem should be division theorem.
- Page 634. First-second line of #30, remainder theorem should be division theorem.
- Page 635. In the solution to #3(a), there are several lines that should be removed, between the end of the solution (marked by the solid-box “end-of-proof” symbol) and the start of #3(c). (To avoid page break problems just leave the space blank, perhaps.)

The first line to be removed reads as

$a_1 = 5$. Now let the integer $m \geq 2$ be given such
and the last two lines to be removed read as

$$a_m = \frac{m(m+9)}{2}$$

Thus we have shown that , which is precisely statement P(m).

- Page 638. In the solution to #4(a), the next-to-last line, $m^2 + m$ should be $m^2 - m$.
- Page 644. Exercise 10(c), change $2x = y^2$ to $2y^2$ and delete $x \in \mathbb{N}$ (That is, the answer should read $\{2y^2 : y \in \mathbb{N}\}$.)
- Page 645. Exercise 26(a) change 667 to 668
- Page 651, at top. In exercises 10, 11, 12, and 13, change every occurrence of the variable t to be the variable w
- Page 651, at the top, the solutions for 13(a) and 13(c) are switched.
- Page 654. Exercise 10(b) should begin $g(0) = 00000$
- Page 654. In each part of Exercise 13 there are errors in the second graph given. The easiest solution is to delete the right-hand graph in each part of the exercise, and change the beginning of the solution to read Here are the diagrams for R:
- Page 655. The solutions given for exercises 23 and 24(b) must be fixed.
- Page 655. In the solution to exercise 11, remove the words “by contradiction”.
- Page 656. In the solution to exercise 1(a) there is a missing arrow from 2 to 8.
- Page 657. If I’m not mistaken, the answer for exercise 9(b) should be “antisymmetric, transitive” and for 9(c) “irreflexive, antisymmetric, transitive”
- Page 663. Section 5.1 exercise 4(c) is missing a right parenthesis at the end.
- Page 663. Section 5.1 exercise 5(c) perhaps indicate that $10/36$ is approximately 28%?
- Page 663. In several Section 5.2 solutions there are spaces in the middle of the numbers. For example, 1(a) has 60, 466, 176
- Page 665. Exercise 31 change “that have each x_i from $\{1,2,\dots,6\}$ ” to “that have each $x_i \geq 1$ ”.
- Page 666. Section 6.1 exercise 3(a) answer should be $5/18$
- Page 666, Section 6.1 exercise 14. The problem statement uses the notation w_n but the answer key uses a_n .
- Page 668. Exercise 18 should be $35/972 \approx 0.036???$
- Page 669. Section 6.4 exercise 6, change “leading to the final answer will be $E[X]$ ” to “leading to the final answer, $E[X]$ ”
- Page 669. Section 6.5 exercise 5 for the first summation at the top of the second column put in 10 for the n .
- Page 669. Section 6.5 exercise 17. I have a note that the answer is incorrect, but no other information. Perhaps look at the Solution Manual stuff.
- Page 670. Section 6.5 exercise 11. The answer given ($9/10$) is the answer to exercise 12. The correct answer for #11 is 3.2.
- Page 670. Section 6.5 exercise 15. I believe the given answer is based on starting at deuce.