

**ERRATA for Fourth Edition**  
**Discrete Structures, Logic, and Computability**

**Page 234 Example 11:** On the 10<sup>th</sup> line of the example, replace the right bracket “]” with a right parenthesis “)” at the right end of the displayed equation.

**Page 449 Example 12:** On the 5<sup>th</sup> line of the proof, move “ $\neg \neg A$ ” to the left so that it aligns with the “ $A$ ” on the first line of the proof.

**Page 721 line –8:** Replace “any walk that” with “any trail that”.

**Page 730 in Box (10.6.2):** Insert the word “simple” so that the phrase “If  $G$  is a planar graph” becomes “If  $G$  is a simple planar graph”.

**Page 789 (in Part 3 of box (11.4.1)):** Replace “ $I \rightarrow a.$ ” with “ $I \rightarrow aJ.$ ”

**Page 851 (in Figure 12.2.1, the right-hand column):** On line 6 in the figure replace “while  $I 0$  do” with “while  $I \neq 0$  do”.

**Page 851 (in Figure 12.2.1, the right-hand column):** On line 10 in the column replace “while  $X 0$  do” with “while  $X \neq 0$  do”.

**Page 851 (in Figure 12.2.1, the right-hand column):** On line 11 in the column replace “while  $X 0$  do” with “while  $X \neq 0$  do”.

**Page 852 (in Figure 12.2.2, the left-hand column):** On the last line of the column replace “if  $x y$  then” with “if  $x \geq y$  then”

**Page 853 (in Figure 12.2.3, the left-hand column):** On the last line of the figure replace “ $x y$ ” with “ $x \neq y$ ”. Keep the double quotes as shown in the figure.

**Page 919 line 11 (answer k):** Replace “If  $x \in S$ , then  $abx, bax, axb, bxa \in S.$ ” with “If  $x, y \in S$ , then  $axb, bxa, xy \in S.$ ”

MINOR STUFF

**Page vi line 2:** Delete the entry “Properties of Expectation...”.

**Page viii line –4:** Change the entry “Eulerian Graphs” to “Eulerian Graphs (Traversing Edges)”

**Page x line 17:** Change the entry ”Hierarchy Table” to “Summary”.

**Page x line –7:** Change the entry “Reduction” to “Reduction and NP-Completeness”.

**Page xi line –1:** Insert “use in” so that “for its formal” becomes “for its use in formal”.

**Page 53 line 7 (The heading in the box):** Make the word *Relation* both italic and boldface.

**Page 247 line 2:** Make the word *chain* both italic and boldface.

**Page 247 line 4:** Make the words *descending chain* both italic and boldface.

**Page 323 line –7 (2<sup>nd</sup> line in the box):** Make *r-permutation* both italic and boldface.

**Page 336 Box (5.4.1):** Change the four bullets from upper case to lower case.

**Page 360 line 12:** Make this heading a subsection instead of a subsection.

**Page 361 Box (5.4.2):** Change the two bullets from upper case to lower case.

**Page 362 Box (5.4.3):** Change the two bullets from upper case to lower case.

**Page 406 line 4:** Move the “end of example symbol” down a bit so that it appears at the end of line 4.

**Page 507 (in Review Questions):** Move the following (second and third) questions:

What is the universal closure of a wff?

What is the existential closure of a wff?

These two review questions should be moved to the end of the list of Review Questions for Section 7.1 on Page 489.

**Page 540 (in Review Questions):** Remove the last question “What is the general EE rule?”.

**Page 612 line 14:** Delete the line “• How do resolution proofs work?”.

**Page 624 line 4:** Make the word *zero* both italic and boldface.

**Page 708 (in Review Questions):** Insert the word “is” in the second Review Question so that it reads “What is the sum of the degrees in a graph?”

**Page 817 (display on line 6):** Make “Aw” italic.

**Page 969 line 10:** Change PC to CP.