**Errata in Discrete Mathematics and its Applications, 7th ed**.

Page 50 The first line of the solution part of Example 25 after the comma should read

“where the variable has ….”

(the book currently reads “where the variable *x* has ….”)

Page 80 Exercise 23 In the first line of the argument, the “or” symbol should be an

“and” symbol ($\vee$ should be $\wedge$)

Page 141 In Definition 5 the word “injunction” should be “injection”

Page 220 line -8 The equals sign (=) should be the word “is” in the equation to read:

“$2 \log n + 2$ is $\Theta(\log n)$”

(not $2 \log + 2 = \Theta(\log n)$

Page 239 line -7 (third line of the Remark) The right-hand side of the equation should be “instead of “

Page 241 “Karl” should be “Carl” throughout the book whenever the mathematician “Carl Friedrich Gauss” is mentioned. (This occurs in the first line after Example 5 and twice in the biographical footnote and in the index entry for Gauss on page I-9.)

Page 244 Exercise 6 in the first line change “ to “and

Page 253 Replace lines 7 – 9 of the algorithm with these four new lines

{\bf if} $a < 0$ {\bf then}

$q := -(q+1)$

{\bf if } $r > 0$ {\bf then}

$r = d – r$

Page 279 In line 10 of the solution of Example 6, change “equation” to “congruence”

Page 291 in the first line of the last paragraph (line -7 of the page) the summation should add the terms $ix\_i$ (that is, the factor $i$ should be included in each term and “mod 10” should be “mod 11”. So, this in line equation should read $\sum\_{i=0)^10 ix\_i \equiv 0 \,(mod\,11)$.

Page 292 in the first line of the page, the summation should be over the terms $ix\_i$ (that is, the factor $i$ should be included in each term) and “mod 10” should be “mod 11” . So, the in-line equation should read $\sum\_{i=0)^10 ix\_i \equiv 0 \,(mod\,11)$.

Page 296 in the second line of the subsection “Cryptanalysis”, the letter “p”

Is missing in the word “cryptanalysis”

Page 297 In Example 6, the permutation should have $\sigma(1) =2$,

$\sigma(2) = 4$, $\sigma(3) = 1$, $\sigma(4) = 3$

In part (a) of the solution, change the third sentence to read:

The ciphertext block corresponding to a plaintext block of four letter, begins with the second letter of the plaintext, followed by its fourth letter, first letter, and third letter, respectively.

In part (b) of the solution, change the first sentence to read:

“We note that $\sigma^{-1}$, the inverse of $\sigma$, sends 1 to 3, 2 to 1, 3 to 4, and 4 to 2.”

Change the second sentence to start”

“To decrypt a ciphertext block, we put the third letter of this block first, then the first letter, the fourth letter, and the second letter, respectively. This gives us the plaintext: USEW ATER HOSE.”

Page 432 In the fourth line of Exercise 20 change “auxiliary” to “slack”

Page 451 Exercise 16 change the exercise to read

“What is the probability that a five-card hands five cards of the same suite (that, a flush, straight-flush, or royal flush)?”

Page 452 Exercise 3 (a) “with” should be “when”