**Errata**

**Chapter 1**

Page 6: Last line on page is **NOT** zero, it is equal to a constant.

Page 7: Six lines above “**Question 1**” -

Page 14: In **Figure 1.7** the vector arrows are missing over A & B

Page 15: In **Figure 1.8** the vector arrows are missing over C

Page 17: In the graph of Problem #3 there is an extra “x” on the vertical axis

**Chapter 2**

Page 24: The equation at the bottom of the page has problems with the MINUS signs!

Page 26: **Equation 2.9** is missing a **MINUS** sign in front of the integral. It should read:

Page 32: **In Equation 2.20**, the “d” is not needed in the numerator. It should read:

Page 32: In **Figure 2.6,** in the last lineunder “After” the factor ½ is missing in front of “**mv2**”.The equation should read: KEf = ½M(V-DV)2+½**mv2**

Page 33: It is a good idea to move Figure 2.7 the middle of the page, before the paragraph that starts with: “A classic elastic …”

**Chapter 3**

Page 54 a) Fourth line from the bottom add I**α** to the equation: **τ** = **r** x **F** = I**α**

b) Second line from the bottom of the page should read: angular acceleration **α** (measured …). In other words, delete “= **r** x **F**”

Page 56 a) There is no problem numbered “10.” We need to renumber 11 & 12.

b) 12 b. should read: …”showing all forces and reaction moments on the bar AB”

Page 57 Line 4 from the bottom of the first paragraph. The word “or” after the “and” should not be there.

**Chapter 5**

Page 76 Associated with Example 5.1

1. The rod is circular with a 4cm radius (NOT rectangular, as written on the first line of the Example).
2. The force should be 50 x 103 N (not 50 x 106. N. as written on the line that contains the word “Solution.”)
3. Finally the yy, should be equal to -9.61 x 106 N/m2, (not -30.2 x 106 N/m2, as written in the book.)

**Chapter 6**

Page 93 The MATLAB code is missing a line. Just below ‘delta\_c=0;Dc=1.0;’ should be 'x\_c=real (Dc\*exp(1i\* (w\_oc\*t+delta\_c)) );’. Without this line, the second graph of the decaying oscillation doesn’t work.

In addition, there is a line "w\_oc = sqrt(k/m - gamma^2/2) +i\*gamma/2;" The gamma^2 should be divided by 4, not 2.

Page 97 In Question 6.5, on page 97, the last line says, i = I\_0\*e^(jwt). It should be: I = I\_0\*e^(jwt). It should be a capital "I" so as not to confuse it with j = i = imaginary number (also used in this question).”

Page 98 In the Figure 6.7 caption, replace “change” with “charge.”

Page 99 Problem 2 – Replace the last letter “α” with “γ” (to make it consistent with the text)

**Chapter 7**

Page 109 Two lines above Equation 7.25, change “cross-section” to “cross-sectional”

Page 113 In Equation 7.43, replace the “*kix*” (in the exponent, inside the parenthesis only) with “*krx*”

Page 120 In the middle of the page, in the first line after the calculation of t21, replace “*k2*” with “*k2*”

Page 128 In Problem 9 (b), replace “rope” with “string”

Page 129 In problem 15 (a), replace “Eq. (7.43) and Eq. (7.44)” with “Eq. (7.44) and Eq. (7.45)”

**Chapter 8**

Page 135 In the Table with electromagnetic regimes, under the column “Typical wavelength” (line 10 from the bottom), replace “*650 nm*” with “*650 nm*”

**Chapter 9**

Page 151 In Equation 9.10, the lower limits in the integrals are missing. They should be “-∞”

**Chapter 10**

Page 175 In line 7, the symbol “*kB*” is used without having been defined. It represents Boltzmann’s constant.

**Chapter 11**

Page 196 In the first line after the cation under Figure 11.4, there is an extra parenthesis after “as shown in Figure 11.3”

Page 201 1. In the first line of the first paragraph, replace “baps” with “gaps”

2. In the caption of Figure 11.9, replace “Brilliouin” with “Brillouin”

Page 204 In Figure 11.11(b), replace “ℏω+ℏω = *Eg*” with “ℏω = *Eg*” and get rid of the “+**q”** in the equation below this.

**Chapter 12**

Page 222 In Example 12.1, in the middle of the paragraph that starts with “Solution:”, replace “2280” with “2760”.

**Chapter 13**

Page 314 In Problem 4, replace “square” with “rectangular”