Errata in: *Principles of Communications*, 5th Edition
by Ziemer and Tranter

Page 23 Equation 2.19. The LHS is defined for all t, but the RHS is not defined for $t = \pm 1/2$. One reason why this is a meaningful error is that it looks like the equation could be used to derive the Fourier transform of the step function from the Fourier transform for the unit pulse. But it can't.

Page 31 Table 2.1, number 4: $-\frac{4A}{T_0}+$ should be changed to $-\frac{4A}{T_0}t+$.

Page 43 Equation 2.116: The LHS should not involve an integral; it should be $x_1 \star x_2$ all by itself.

Page 46 Equation 2.140: change ft to $f\tau$.

Page 58 Figure 2.16(a): The leftmost curve can not intersect the horizontal line at A, no matter what the value of $RC > 0$ is.

Page 72 Figure 2.25: Change the upper T_R to $f_3 T_R$.

Page 97 Problem 2.49(b): the "xr" should be a π.
Problem 2.54, 2nd line: change x_2 and x_3 to x^2 and x^3, respectively.

Page 106 Figure 3.2(b): Change $X_c(t)$ to $x_c(t)$.

Page 107 Figure 3.3: change fc to f_c.

Page 129 Figure 3.23: Change the $f_m - f_m$ to $f_c - f_m$.

Page 132 Figure 3.24: Absolute magnitude signs should be put around the Bessel function notation.

Page 136 Equations 3.114, 3.115, and 3.118: change β on LHS to B

Page 148 The 3 x_c's above Equation 3.168 should be changed to x_r's

Page 150 Line 9: Change "effort" to "effect". Equations 3.176 and 3.177: Change x_t to x_r. Equation 3.177: Change $\sin \omega_i$ to $\sin \omega_i t$. Line above Equation 3.184: change "since" to "Since"

Page 156 Figure 3.47: change k_d to K_d.

Page 172 Figure 3.61(a): the leftmost multiplier should be an adder, and the $\delta(t - nTs)$ should be changed to $\delta(t - nT_s)$

Page 173 Line above eq. (3.257): delete "at".

Page 176 Just above eq. (3.264) change "so that" to "so that, if k is the constant of proportionality," and then change eq. (3.264) to $B = 2Wkn$. Finally, delete in the line after eq. (3.264) the phrase "and k is a constant of proportionality".

Page 177 4th line above eq. (3.266): “band width” should be one word.

Page 179 Figure 3.68(c): It seems that the rightmost $\ell(t)$ and $r(t)$ should be $2\ell(t)$ and $2r(t)$

Page 182 In Figure 3.71: Change T5 to T4.

Page 248 Title of Sect. 5.2: ”Processes Random” should be ”Random Processes”.

Page 253 Equation 5.15: n(t) should be squared.

Page 261 Equation above Equation 5.56: Change ”r” to ”R”

Page 280 4th line of Problem 5.15: Change ”x” to ”X”

Page 334 Line after eq. (7.6): Bring η outside the radical.

Page 391 line 3 of problem 7.19: Change ”C” to ”c”, and in the equations displayed in problem 7.15, change ”S” to ”s”

Page 570 Line 2 above SUMMARY: Change “r0te” to “rate”.

Page 575 Line 3 of problem 10.23: Change 0.9 to 0.09. Line 3 of problem 10.24: Change “bit symbol” to “bit/symbol”

Page 620 Entry 3: Change α to a or vice versa. Entry 12: Change “ut” to “u(t)”.

Page 621 Appendix G.6, number 9: Change the x_1 under the integral to X_1.

Page 636 In the entry for Rice, change ”Ricien” to ”Ricean”.