Errata 12/12/03

Page 39. just above equation (1.22) the text should read: defined as the integral of \( f(x,y) \) along a line \( L \), as shown in Figure 1.28:

Page 112. The first sentence should read: If the ultrasound wave moves from a high to a low acoustic impedance, i.e., \( Z_1 > Z_2 \), then the reflected wave will undergo...

Page 122. Figure 3.8 legend should read (Left) The separation between the two shaded objects \( \Delta x \) is greater than the FWHM of the beam.

Page 142. Line 4. The pulse repetition rate (PRR) is defined as the sampling frequency, and therefore the relationship...

Page 169. After equation (4.29) the sentence should read: In the field of high-resolution NMR spectroscopy for chemical analysis, the value of \( 1/T_2^+ \) is very small ....

Page 174. The values of sigma are incorrect. The difference in resonance frequencies is correct, but water protons resonate at a higher frequency than those in fat since the water protons are less shielded.

Page 180, equation (4.49) is missing the \( 2\pi \) terms and should be:

\[
S\left(k_x, k_y \right) \propto \int \int_{\text{slice}} \rho(x,y) e^{-j2\pi k_x x} e^{-j2\pi k_y y} \, dx \, dy
\]

Page 195, equation (4.55) should be:

\[
I(x,y) \propto \frac{\rho(x,y) \left(1-e^{-TR/T_1}\right) e^{-TE/T_2} \sin \alpha}{1-e^{-TR/T_1} \cos \alpha}
\]

Page 223. Figure 5.4 legend. (Left) For a sinc PSF, the signals from the two point sources can be resolved when the separation between them is greater than half the width of the main lobe of the sinc function.