To Measure the Sky

Errors for correction in second printing (November 2010).

P 18. Figure 1.5 – direction of y-axis labels should be horizontal

P 24. Figure 1.8 – Labels on curves should be (top to bottom) 5000K, 4000K, 3000K

P 28. Section 1.6.2, line 4 – Exponent incorrect, correct in red: "1 parsec = 3.086 x 10^{16} meters"

P 92. RHS of last equation on page, remove superfluous "1's" should read:

$$\frac{(z+1)^2 - 1}{(z+1)^2 + 1}$$

P 97. Problem 13, second sentence, insert word: "supernova of absolute magnitude -20".

P 127. Section 5.2.2 – last two sentences of the section should read:

Likewise note that with the substitution s_2 = -s_0, the equation for a thin lens (5.8) is identical to the equation for a mirror (5.5). In the discussion that follows then…or vice versa, so long as the object point is "reflected" to the other side of the vertex.

P 154. No boldface on lines 5, 8 and 9. No boldface on the last line.

P 156. Problem 5 – Delete the last sentence "show…(5.11)"

P 195. Problem 10, last sentence, insert words:
"Assume a perfect AO system and that the background for the ELT…"

P 233. Problem 2, lines 1-2 "Table 7.2" should read Figure 7.2

P 233. Problem 3, "rotation" and "vibration" are incorrectly switched. Beginning with the third line, text should read:
"…ground state, state (*J*=0, *v*=1) has an energy of 1 eV. Suppose also that, no matter what the vibrational state is, the relative energies of the lowest rotational states are *J(J+1)d* where *d*=10^{-5} eV and *J* is the rotational quantum number. (a) Compute the wavelengths of all permitted emission line arising between vibration levels *v*=0 and *v* =1, and involving rotation states *J*=0, 1, 2, 3 and 4. Permitted transitions require $\Delta J = \pm 1$. (b) Sketch the emission spectrum for these lines."

P 234. Problem 9 line 5 should read "resolution (R=$\lambda/\delta\lambda$) of this device"

P 270. Equation (8.4) the leading "Δ" should be omitted from the left-hand side. It should read:

$$T(t) = T_o + \ldots$$

P 274. Problem 11, last line – exponents should be omitted. Should read: "exposure time if $Rg > \sigma_G N$"

P 321. Problem 1. Add sentence at the end of the paragraph

"Assume $R_Z = 0$ and $R_1 = 100$."

P 322. Problem 8, line 4. Delete "persec." The text should read "expected to be 7 ADU per second over a digital…"