

August 2009

ERRATA**Astronomy Methods, First Printing**

Note: the following five items have been corrected in the 2009 printing of the textbook. There are a few other minor corrections in that printing, but the corrected items do not mislead and hence are not listed here.

1. On pages 39 and 40, the term “epoch” was used for both the coordinate system and for the exact date/time of observation. Usual practice is that the former is referred to as the “equinox of the coordinate system”, or simply the “equinox”, while the latter is the the “epoch of the observation” or simply the “epoch”. The coordinate of a star will vary with “epoch” because of its proper motion, even for the same “equinox”. Thus the coordinates of a given star with significant proper motion depend on both the “equinox” and the “epoch”. (With thanks for Prof. Emeritus Wayne Osborne of Central Michigan University.)
2. On p. 89, the Julian date was named by Justus Scaliger after the Julian year, not after his father. (With thanks to John Fulton)
3. Equation 9.11 (page 261) is missing an “approximately equal” symbol and a final constant. It should read:

$$m_B - m_V \equiv B - V \approx -2.5 \log_{10} \left(\frac{\mathcal{F}_{p,B}}{\mathcal{F}_{p,V}} \right) + 0.67 \quad (\text{Color index}) \quad (9.11)$$

4. Figure 10.1 (page 305). The Lyman alpha transition label points to the wrong transition. It is the leftmost (least energetic) line of the Lyman series.
5. In Fig. 11.4 (p. 344), the leftmost K edge is O⁺⁸, not O⁺⁵.