

Errata for

A First Course in Atmospheric Thermodynamics

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This page documents significant errors in the textbook that were discovered after the book went to press. These errors will be corrected in the next printing. An up-to-date copy can be found at <http://www.sundogpublishing.com/AtmosThermo/Resources/Errata.pdf> If you find errors not listed here, please send a message describing the error to feedback@sundogpublishing.com.

p. 84, Eqs. (4.7)–(4.9): These equations should read as follows:

$$a + g = -\frac{1}{\rho} \frac{[p(z + dz) - p(z)]}{dz}$$
$$-(a + g) = \frac{1}{\rho} \frac{\partial p}{\partial z}$$
$$\frac{\partial p}{\partial z} = -\rho(a + g)$$

p. 113, fifth line from bottom: The altitude associated with 925 hPa is 762 m, not 726 m.

p. 135, Problem 5.4: The numerical answer to part (d)-(i) should be 9.99×10^4 J/kg.

p. 148, Eq. (5.75): Equation should read $w = q = w_1 + w_3$.

p. 164, line 16; p. 165, lines 3, 5, and 6; also Eq. (6.18): There are six instances where the subscript i in $T_{1,i}$ or $T_{2,i}$ should be f . In particular, (6.18) should read

$$T_{1,f} = T_{2,f} = \frac{1}{2}(T_{1,i} + T_{2,i}).$$