Updated listing of typos in Blundell[2] text, <mark>new entries highlighted</mark>, and <mark>newer</mark>

Last update March 4, 2009

Text typos:

<mark>p. 2: The US budget deficit is overstated by orders of magnitude</mark>

p. 44, Exercise 4.2: Example 4.3, not 3.2

p. 44, Exercise 4.9: Example 4.2, not 3.1

<mark>p. 45, bottom of highlighted region: replace Chapter 1 by Chapter 8</mark>

<mark>p. 52, Exercise 5.2: atomic mass of He is 4</mark>

<mark>p. 56, 1st line of eq. 6.14: dv and dθ are written twice</mark>

p. 59-60, Exercise 6.4: Number density should be provided.

<mark>p. 72, Exercise 8.1: Specify room temperature as in Example 8.1.</mark>

p. 75: 3 lines after eq. 9.2: dv rather than dc
  Caption of Fig. 9.2: velocty → velocity

Fig. 9.1: For the drawn velocity distribution, there should be no force at the bottom.

p. 97, 5 lines above eq. 10.56: $\nu = \eta/\rho$ (not c_p)

<mark>p. 111, second last bullet: replace C_V by C_p</mark>

<mark>p. 120, Exercise 12.6, Eq. 12.40: replace L by L/2</mark>

<mark>p. 127, line after eq. 13.19: replace Q_1 by Q_ℓ</mark>

p.140: 3 lines after 14.25: maximimum → maximum

p. 177, line 2 of eq. 16.84: replace "Maxwell's relations" by "reciprocal theorem"

<mark>p. 177, line 3 of eq. 16.84: replace "reciprocity theorem" by missing theorem C.42½ (see erratum for p. 444)</mark>

<mark>p. 179, Exercise 16.7: Specify that rho is the number density, not the mass density. (I suppose it could be the mass density if one adjusts the constant by $C_V \ln(m^\gamma)$.)</mark>

<mark>p. 192, Exercise 17.3: This is a great problem, but many students had difficulty understanding it. A sketch would help. In any case, it should be made clearer that what you mean by the length is the distance between the beginning and the end of the chain.</mark>

One student was troubled by the case of $N_- > N_+$. You could either use $|L|$ as the length or say WLOG assume $N_+ > N_-$.

p. 214, eq. 20.27: after the second $=$, $-\Delta/2T$ rather than $-\Delta/T$

p. 241, eq. 22.67: $K = p_B/p_A$, not p_A/p_B

　　Next line: $K \ll 1$

　　Following line $K \gg 1$

　　eq. 22.70: $dG = (\mu_B - \mu_A)\, dN_B$

　　eq. 22.71: p_B/p_A, not p_A/p_B

　Top marginal note: the upper and lower limits on the integral should be switched

p. 243: eq. 22.82 & 22.84, no subscript j for the p in the denominator

p. 246, Exercise 22.5, line 2: N!, not N1 (online correction omits !)

p. 249: line after eq. 23.11, replace K^{-1} by K^{-4}

p. 260: eq. 23.60, on the right side it should be g_2/g_1 rather than g_1/g_2

　eq. 23.61, the sign on the exponential should be plus (i.e. nothing) rather than minus.

p. 290: eq. 26.41: No V on the left, just p; then $-a/V^2$, not $+$.

pp. 337-8: The factor (2S+1) is double counted in the partition function and the density of states. Eqs. 30.6 and 30.7 are correct.

p. 338: eq. 30.8: missing ln before Z

p. 340: eq. 30.22: argument of theta should be $(E_F - E_k)$ (note that $\mu \to E_F$ as $T \to 0$)

p. 347, eq. 30.55: first expression should be $1/(z^{-1} - 1)$, $z = \exp(-\beta\mu)$

p. 444 between C.41 and C.42: dy rather than dz

p. 444, "C.42½: $(\partial y/\partial x)_z = (\partial y/\partial w)_z / (\partial x/\partial w)_z$

Chap. 7: this kind of flux is different from the flux most students recall from E&M. Wikipedia has a nice discussion!

Solutions:

6.5a: Integral should be to pi/2, not pi.

9.5 Values of d: ??????????????????

13.7 The solution makes use of the idea that there is no change in entropy in the most efficient situation, but entropy has not yet been introduced!