

Errata

Statistical Mechanics, Third Edition

R.K. Pathria and Paul D. Beale, first printing (Academic, 2011)

page 112, Problem 4.15. The correct value for the latent heat of sublimation near the triple point is 2833 kJ/kg.

page 174, The Hamiltonian in problem 6.9 should read

$$\mathcal{H}(p_r, p_\theta, p_z, r, \theta, z) = \frac{p_r^2}{2m} + \frac{(p_\theta^2 - mr^2\omega)^2}{2mr^2} + \frac{p_z^2}{2m} - \frac{mr^2\omega^2}{2}.$$

page 296. In the result in problem 9.4, the exponent 3/2 should be $-3/2$.

page 296. In the result in problem 9.5, the exponent 3/2 should be $-3/2$.

page 296. The energy density in problem (9.6) should read

$$u_{\text{total}} = (1 + (21/8)(4/11)^{4/3})u_\gamma.$$

page 280, Figure 9.4: upper figure label should read $\Omega_b h^2$ not $\Omega_B h^2$

page 399, Problem 11.17, line 3, the dimensionless wavefunction should read

$$\psi = a_{\text{osc}}^{3/2} \Psi / \sqrt{N}.$$

page 635, Problems 15.20 and 15.21: The correlation function relation should read:

$$G_{AB}(t) = G_{BA}(-t - i\beta\hbar).$$

page 673, equation (F.18): the semicolon after the equation should be a comma.