Section 5.2, changed figures 5.4 and 5.5 to orange and blue atoms, rewrote section appropriately.

Exercise 2.21, “Lévy flight”, four lines above eqn 2.39, parenthesis in wrong place
\( (1/2\sqrt{\pi}) \exp(-x^2/4) \) should become \( 1/(2\sqrt{\pi}) \exp(-x^2/4) \)

Exercise 3.16, “Taste, smell, and \( \mu \)”, section around part (c) rewritten. We now assume no energy is exchanged between fluid and receptor except for the binding energy, and also \( S_f \) should be \( S_f^B \) in part (c). Other changes on same page to match the total space.

Exercise 5.8, “The Arnol’d cat map”, first sentence part (c), reworded to “Calculate the momentum \( h \) at which the thin strip, pointing along the expanding eigenvector from part (b), first crosses the line \( x = 0 \).”

Exercise 5.24, “Nucleosynthesis and the arrow of time”, just above part (a), we need to specify the number of ideal gas atoms N.

Exercise 6.22, “FIM for Gibbs”, fourth line below eqn 6.94, minus sign error in two formulas
\( G(p,\beta) = -k_b\log(\Gamma) = -\left(1/\beta\right)\log(\Gamma(p,\beta)) \), so \( \log(\Gamma) = -\beta G(p,\beta) \).

Exercise 7.11, “Phonons on a string”, clarifications and simplifications. We now discuss the total potential and kinetic energy, rather than their densities, and give the mass of the decoupled harmonic oscillators \( m = \mu \ell/2 \).

Exercise 7.27, “Heisenberg entanglement”, added acknowledgement to Chao-Ming Jian.

Exercise 12.29, “The onset of chaos: lowest order RG”, second column line 35, forgot epsilon
\( T[g^* + \epsilon \psi](x) = -g^*(x) = \delta \epsilon \psi(x) \)