ERRATA
Nanophysics and Nanotechnology, 2nd edition

p. 8, 3d line should read "10^{12} bits/m^2 (one Tb/m^2)".

p. 17 line 4, should read "is exactly two seconds".

p. 17 line 8 should read "generate a 500 Hz tone".

p. 18, last sentence in the text box, should read: "In the case of the pendulum, if x « L is the horizontal displacement of the mass m, then $F/m \approx -gx/L$ and $\omega = (g/L)^{1/2}$."

p. 18, 2nd line after the text box, replace "$\omega \propto \alpha L^{-1}$" by "$\omega \propto L^{-1}$".

p. 18 line 11, should read "LF/YA=0.11 μm=110 nm".

p. 18 line 8, should read "This frequency is nearly in the ultrasonic range."

p. 20, 3d line in Section 2.2 should read:
"$m \propto L^3$ and $K \propto L$, so $\omega = (K/m)^{1/2} \propto L^{-1}$"

p. 20, 3d paragraph from bottom of page: The spring constant K is defined as $K = F/\Delta L = AY/L$, so $K \propto L^{-1}$.
The last line in this par. should read: "constant $K = AY/L, \propto L^{-1}$".

p. 21, 1st line, replace "$v \alpha L^0$" by "$v \propto L^0$" and "$\omega \alpha L^{-1}$" by "$\omega \propto L^{-1}$".

p. 21, 2nd line, replace "$a \alpha L^{-1}$" by "$a \propto L^{-1}$".

p. 21, 9th line, replace "$\alpha \omega U$" by "$\propto \omega U$".

p. 30, 3rd line, reads "order of 100 pW" should read "order of 1 nW"

p. 127, 10th line should read:
"E = 2.5 V/nm, τ is extremely long, estimated as 6 x 10^{35} s or 1.9 x 10^{28} y. This latter …"

p. 217, the symbol A (the Hamaker constant) was omitted and should appear in the numerator of Eq. 9.3a.
Eq. 9.3a should read "$E_{vdW} = -AS/ (12\pi s^2)$".

p. 269, line 13, part A. of Exercise 5.12 (this is fairly far down in the text explaining this exercise) there is a missing exponent ½ on the square bracket term at the end of the line. The correct statement is
"A. Solve the quadratic $-E_o = -ke^2/x - eEx$, show that $\Delta x = [(E_o/e)^2 - 4keE]^{1/2}/E$."
The square bracket term at the end of the line correctly has exponent ½.

p. 269, last three lines before Exercise 5.13, should read "The lifetime is about 6.04 x 10^{35} s or about 1.91 x 10^{28} y. (The famous result of Oppenheimer is a lifetime of $(10^{10})^{10}$ s for E = 1000 V/m.)" This is the corrected estimate of the lifetime of the H atom against field ionization in an applied field of 2.5 V/nm. The exponent -118.8 is correctly given in the problem statement.

p. 271, 2nd line, "Table 5.1" should be replaced by "Table 5.2".

p. 275, "Some Useful Constants", left column halfway down words "Permittivity of Space" should read "Permeability of Space".