

ERRATA in 1st printing of UNIT T (3rd edition)

- Page 26, Table T2.1: the labels above the first two columns should be U_A / ε and U_B / ε (for clarity).
- Page 26, second paragraph, second line: change $U_A = U_B = 3$ to $U_A = U_B = 3\varepsilon$.
- Page 27, section T2.6, fifth line: this URL was correct at the time of printing, but not at present. Go either to <http://www.physics.pomona.edu/sixideas/resources.html> and click on “StatMech” or go directly to <http://sixideasapps.pomona.edu/StatMech/>
- Page 33, problem T2D.2, second line: change Ω_A to Ω_B .
- Page 33, problem T2D.2, top row of the table: change U_A to U_B .
- Page 33, problem T2D.2, bottom row of the table: change Ω_A to Ω_B .
- Page 60, Example T4.3, second line of the Solution: change “rest of the gas.” to “rest of the solution.”
- Page 64, fourth line above Example T4.4: change “We can estimate $T_E = k_B/\varepsilon$ ” to “We can estimate $T_E = \varepsilon/k_B$ ”
- Page 67, Problem T4M.5, fifth and sixth line: delete “percent” after the 5% (redundant).
- Page 76, equation T5.19b: should read $dU/dt = \frac{5}{2}Nk_B$ (that is, delete the T).
- Page 79, equation T5.22: change dp to $d\vec{p}$.
- Page 80, equations T5.24 and T5.25: change $[F]_{\text{avg}}$ to $[|\vec{F}|]_{\text{avg}}$ (two times).
- Page 81, equation T5.27: change $[v^2]_{\text{avg}}$ to $[|\vec{v}|^2]_{\text{avg}}$ on the first line and $[mv^2]_{\text{avg}}$ to $[m|\vec{v}|^2]_{\text{avg}}$ on the second.
- Page 94, last line: this URL was correct at the time of printing, but not at present. Go either to <http://www.physics.pomona.edu/sixideas/resources.html> and click on “MBoltz” or go directly to <http://sixideasapps.pomona.edu/MBoltz/>
- Page 97, last line: this URL was correct at the time of printing, but not at present. Go either to <http://www.physics.pomona.edu/sixideas/resources.html> and click on “Planck” or go directly to <http://sixideasapps.pomona.edu/Planck/>
- Page 103, Problem T6D.3, equation T6.29: last factor on the right should be $\frac{dv}{v_P}$, not $\frac{v}{v_P}$.
- Page 103, Problem T6D.4, equation T6.30: same as above.
- Page 137, Problem T8B.5, last line: change “water’s” to “block’s”.
- Page 137, Problem T8M.7: end of first line: add “at 273 K”.
- Page 162, line below equation T10.3: change “well below the wavelength” to “much longer than the wavelength”.
- Page 192, answer to T1B.5: should be 0.286 kg, not 0.266 kg.
- Page 192, answer to T1M.7: should be 90.3°C, not 9.7°C
- Page 192, answer to T4M.1: should be 0.99958, 0.00042, not 0.99952, 0.00048.
- Page 192, answer to T5D.9c: should be 0.36, not 0.33.
- Page 192, answer to T5R.3c: should be 0.36, not 0.33.
- Page 192, answer to T6M.4d: should be 960 Cal/d, not 980 Cal/d.
- Page 192, answer to T7M.9, part (b): should be -115 J, not 374 J.
- Page 192, answer to T8M.7, x should be 2.5×10^{22} , not 2.2×10^{20} .
- Page 192, answer to T8R.3, should be 4000 J, not 8000 J.