

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

- Page 13, equation N1.15): the square root in this equation should read $\sqrt{(12 \text{ m/s})^2 + (12 \text{ m/s})^2}$ (the open parenthesis in the printed second item should be before the “12”, not before the “m”).
- Page 35, problem N2B.8: change “point 4” to “point 3”.
- Page 39, last line: change `physapps.pomona.edu` to `sixideas.pomona.edu/resources.html`.
- Page 45, third line: change $x_0 \equiv v_x(0)$ to $x_0 \equiv x(0)$.
- Page 45, equation N3.13b: should have a minus sign before the $\frac{1}{2}|\vec{g}|$.
- Page 49, first line of the next-to-last paragraph and the 4th line of the last paragraph: change `physapps.pomona.edu` to `sixideas.pomona.edu/resources.html`.
- Page 67, problem N4B.3: change “Put the origin at the point O ” to “Put the origin O at the balance point”.
- Page 82, problem N5B.3: change “kinetic friction μ_s ” to “kinetic friction μ_k ”.
- Page 84, problem N5D.4, third and fourth line after equation N5.20: the kinematic viscosity of air is more like $15 \times 10^{-6} \text{ m}^2/\text{s}$ (instead of $13 \times 10^{-6} \text{ m}^2/\text{s}$) and that of honey is between $2000 \times 10^{-6} \text{ m}^2/\text{s}$ to $10,000 \times 10^{-6} \text{ m}^2/\text{s}$ instead of $76 \times 10^{-6} \text{ m}^2/\text{s}$.
- Page 92, figure N6.5b, upward arrow on block B: should be labeled $\vec{F}_T^{B(S)}$, not $\vec{F}_T^{S(B)}$.
- Page 118, equation N7.31: should be

$$\hat{r} = \begin{bmatrix} \cos \theta \\ \sin \theta \\ 0 \end{bmatrix} \quad \text{not} \quad \hat{r} = \begin{bmatrix} \sin \theta \\ \cos \theta \\ 0 \end{bmatrix}.$$

- Page 186, problem N11M.6, 15th line: $V_g = -GMm/r$, not $V_g = -GMm/r^2$.
- Page 186, problem N11M.7, part (b): add “and the earth’s radius” at the end of “Use this information”.
- Page 204, exercise NAX.2: To agree with the solution on page 205, the function should be $f(t) = 1/(t^2 - b^2)^3$.
- Page 210, problem NBB.2, part (b): Should be $f(t) = b(t+T)^{3/2}$, not $f(t) = b(t-T)^{3/2}$ (the latter leads to a square root that is undefined for $0 \leq t < T$).
- Page 224, answer to problem N5M.1: should be 2.9 m/s^2 , not 5.9 m/s^2 .
- Page 224, answer to problem N5M.11: should be $> 4.6 \text{ s}$, not 4.5 s .
- Page 224, answer to problem N9M.1: should be 7.5 m/s , not 7.3 m/s .
- Page 224, answer to problem N9M.11(c): should be 140 m and 37.5 m , not 140.5 m and 38.4 m (though the exact answers depend a bit on the specific version of Newton used).
- Page 224 answer to problem N12R.1: should be 104 s , not 103 s .

(continued)