

Significant Errata for Matter & Interactions I: Modern Mechanics

Errors in version 1.5 (2006), ISBN 0-471-79382-5

P. 29, Ex. 1.45 (c): Draw the vector $\Delta\vec{p}$ on your diagram.

P. 45, answer to Ex. 1.44 (c): $-0.114 \text{ kg} \cdot \text{m/s}$

P. 58, next to last paragraph: Section 2.19, not Section 2.16

P. 66-67: In part 3 in the box on both pages 66 and 67 the spring constant should be 8 N/m , not 8 N/kg .

P. 72, part 3 in box: The x component of the force of the ground is $+f_{\text{ground}}$.

P. 215, 3rd equation in the 3rd set of equations should read as follows:

$$(-0.00659084 \text{ u})\left(1.66 \times 10^{-27} \frac{\text{kg}}{\text{u}}\right)\left(3 \times 10^8 \frac{\text{m}}{\text{s}}\right)^2 = -9.85 \times 10^{-13} \text{ J}$$

P. 280, missing Figure 6.20:

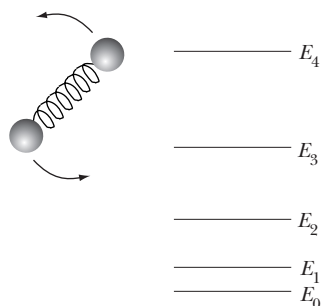


Figure 6.20 Rotational kinetic energy levels of a diatomic molecule.