

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

- Page 33, problem C2B.5, second line: change “onstruct” to “construct”.
- Page 34, problem C2M.4, third line: change “with mass  $2m$ .” to “with mass  $2m$  at rest.”
- Page 66, problem C4M.5, next-to-last line: change “starbase?” to “starbase (assuming that it passes at the same time)?”
- Page 96, problem C6T.10, fifth line: change “it rotates counterclockwise” to “it rotates clockwise”.
- Page 98, problem C6M.9, first line: change “collides with” to “collides head-on with”.
- Page 117, problem C7R.2, part (a), second line: change “ $m$  and  $M$ ” to “ $M$  and  $m$ ”.
- Page 151, problem C9R.1: change the constant “ $K$ ” to “ $C$ ” (4 times in the problem). (I found that students confuse  $K$  with kinetic energy.)
- Page 154, box for equation C10.5, first line of “Note:”: change “The cross product” to “the dot product.”
- Page 157, box for equation C10.5, first line of “Note:”: change “The cross product” to “the dot product.”
- Page 172, second paragraph, third-to-last line: change “block’s case this energy” to “ball’s case this energy”.
- Page 179, equation C11.17: there should be a  $\Delta$  before the final  $U^{\text{th}}$ .
- Page 195, equation C12.9: the beginning of the equation should read  $dU^{\text{th}} = N du^{\text{th}} =$ , not  $dU^{\text{th}} = Nu^{\text{th}} =$ .
- Page 198, equation C12.13: the middle equation should be  $-U_{wf}^{\text{th}} + U_{wi}^{\text{th}} = U_{cf}^{\text{th}} - U_{ci}^{\text{th}}$ , not  $-U_{wf}^{\text{th}} + U_{wi}^{\text{th}} = U_{cf}^{\text{th}} + U_{ci}^{\text{th}}$ .
- Page 202: the two problems in the left column should be C12M.10 and C12M.11, not C12B.13 and C12B.14.
- Page 205, box for equations C13.7 and C13.8, next-to-last line: change “ $10^8$ ” to “ $10^{-8}$ ” (see p. 214).
- Page 215, equation C13.8: the units for  $b$  should be mm·K, not mm/K.
- Page 220, problem C13M.8, first sentence: add “at  $0^\circ\text{C}$ ” to the end.
- Page 226, equation C14.5: the left-most term should be  $\frac{1}{2} m_1 |\vec{v}_0|^2$ , not  $\frac{1}{2} m |\vec{v}_0|^2$ .
- Page 226, third line below equation C14.5: change “unknowns  $v_{1x}$  and  $v_{1y}$ ” to “unknowns  $v_{1x}$  and  $v_{2x}$ ”.
- Page 230, equations C14.20 and C14.21: the subscript in on the  $v$  in the second term in each of these equations should be “ $P0$ ”, not “ $P$ ” in the first and “ $0$ ” in the second.
- Page 237, problem C14B.10: Correct this problem to read as follows: “A 500-kg disk-shaped nonrotating satellite 2.0 m in diameter gets hit by a 5-g piece of space debris moving at 1 km/s on a grazing trajectory that almost misses the satellite’s rim. If the debris buries itself on the rim, how rapidly with the satellite rotate after the hit?”
- Page 238, problem C14M.11, fifth line: delete the “ $\ll$ ” between the  $\frac{1}{2}$  and the  $L$ .
- Page 238, problem C14D.1, first line: add “elastically” after “collides”.
- Page 251, the three lines under **spring**, ideal in the index: the references should be to pages 145 and 146, not pages 124 and 125.
- Page 256, answer to problem C1R.1: should be “order of  $5 \times 10^{18}$  kg, not  $5 \times 10^{15}$  kg.”
- Page 256, answer to problem C5B.5: should be “arrow B” not “not physically possible”.
- Page 256, answer to problem C5M.1: should be 1.8 mi/h, not 1.18 mi/h.
- Page 256, answer to problem C13M.1: should be 3.8 g, not 4.8 g.
- Page 256, answer to problem C13R.3: should be (a)  $15.0 \text{ ft}^2\text{h}^\circ\text{F/Btu}$ , (c) about  $20 \text{ ft}^2$ , (d)  $15.9 \text{ ft}^2\text{h}^\circ\text{F/Btu}$  (instead of 14.3, 25, and 14.9, respectively).

(continued)