OHANIAN AND MARKERT — PHYSICS FOR ENGINEERS AND SCIENTISTS, 3rd edition

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ERRATA IN FIRST PRINTING October 2007

Volume 1 (Chapters 1–21)

Important errata in main text.

Inside front cover: Table "SPECIAL UNITS AND CONVERSION FACTORS" on line "time" at end of line.
Change "3.56×10^7 s" to "3.156×10^7 s"

p. 12 Third line of Example 2. Change ". . . Appendix 8." to ". . . Appendix 9."

p. 98. First line (Checkup 4.1, q. 4): Change "clockwise" to "counterclockwise"

p. 483. Example 6, Solution. First equation. After first equals sign, change "p" in denominator to "π"

p. 225. Figure at bottom. In balloons, change "**F**" to "E" (two times).

p. 548. Figure 17.14. In figure, change "15 m/s" to "6.0 m/s" and change "9.3 m/s" to "2.5 m/s"

p. 584. Figure 18.31. Swap the "y_1" and "y_2" labels (the left one should be y_1, and the right one y_2).

Minor errata in text, Problems, Appendices, etc.

p. 35. Section 2.3. 5th line. Insert "magnitude of the" before "instantaneous"

p. 64. Problem 84. 3rd line. Change "thrower magnitude" to "thrower with a velocity of the same magnitude"

p. 131. Figure 5.1 caption. Add sentence "The pucks move along straight lines with uniform velocity, except when they collide."

p. 162. Problem 5. 3rd line. Insert "horizontal" between "average" and "force"
Problem 20. End of first line of equation. Change "j" to "**j**"

p. 178. Figure 6.5b. Label "**P**" should be near tip of black vector. Label "**N**" should be near tip of red vector.

p. 200. Problem 69. 4th line. Change "(theta)" to "θ" (two times).

p. 216. Example 5, Solution. 1st line. Change "leave" to "leaves"

p. 254. Line before Eq. (8.37). Change "ΔW" to "W"
Equation (8.40). Change "ΔW" to "W"

p. 260 Summary item "Average Power." Delete "Δ" in the numerator only; that is, change "ΔW" to "W"

p. 423. Problem 54. Change "h" to "$\hbar$" (h-bar) (three times).

p. 425. In each of first and third lines add "fixed" just before "shaft".
Also: At end of part (a), add: "(Hint: Since the shafts are fixed, they provide external torques that prevent the flywheels from rotating about each other, that is, angular momentum is not conserved.)"

p. 494 Summary Item "Simple Harmonic Motion." second line. Change "Where A is the amplitude $x = 0$; . . ." to "Where A is the amplitude (the maximum displacement from $x = 0$); . . . "

p. 500. Figure 15.31. The bottom end of the wall should have a semicircular pocket, to accommodate the ball when the string reaches the wall.

p. 686. Figure 21.25. Arrows should go clockwise; also, swap 2 and 3 so order is 1-2-3.

p. 687. Problem 21.46. Change part (d) to "What is the coefficient of performance of this refrigerator."

Appendices

p. A-34 (unnumbered Appendix page: Equation Sheet). "Chapters 22–41"
1) first column, 17th line: change "ΔY" to "ΔV", change "**F**" to "**E**", and do not subscript "$\mathbf{E} \cdot d\mathbf{s}$"
2) middle column, 16th line: change "B_1" to "$B_\perp$"

p. A-37 Solution: Ch. 3, Prob. 13. Change "1.88" to "1.275"

p. A-37 Solution: Ch. 4, Prob. 35. Change "68.8" to "44.0"

p. A-43 Solution: Ch. 11, Prob. 80 should be Prob. 81.

p. A-44. Solution: Ch. 13, Prob. 63. Change "14 rad/s" to "3.1 rev/s or 19 rad/s"

p. A-50 Solution: Ch. 20, Prob. 101. (c) Change "1.7×10^4" to "7.8×10^4"
(d) Change "-2.4×10^3 J" to "0"

p. A-50 Solution: Ch. 21, Prob. 85. (d) Change "44%" to "22%"

p. A-50 Solution: Ch. 21, Prob. 45. Note also errata above, p. 686.
(a) Change "−1.3 . . ." to "+2.0 . . ."
(b) Change entire answer to: " $Q_2 = +4.0 \times 10^4$ J (absorbed); $Q_3 = -2.3 \times 10^4$ J (ejected);"
(c) Change entire answer to "$Q_1 = +3.0 \times 10^3$ J (absorbed)."
(d) Change answer to: " $e = 0.047$."

p. A-52. Appendix. Photo credit for Fig. 5.1 should be to David Hammond.
