

WALKER(HALLIDAY) 11E

Errata

| Chapter | Page | Problem | Misplacement | Correction |
|---------|------|---------|---|--|
| CH1 | AN-1 | 1 | 53L | (a) 4.00×10^4 km (b) 5.10×10^8 km ² (c) 1.08×10^{12} km ³ |
| CH1 | AN-1 | 3 | 0.45 | (a) 1.0×10^9 μ m (b) 1.0×10^{-4} (c) 9.1×10^5 μ m |
| CH1 | AN-1 | 5 | 1.7×10^5 | (a) 160 rods (b) 40 chains |
| CH1 | AN-1 | 7 | 6.13×10^5 mi | 1.1×10^3 acre ft |
| CH1 | AN-1 | 9 | 8.4×10^2 km | 1.9×10^{22} cm ³ |
| CH1 | AN-1 | 11 | 6.3×10^{-12} s | (a) 10/7 or 1.43 (b) 0.864 |
| CH1 | AN-1 | 21 | 2.6×10^3 kg/m ³ | 9.0×10^{49} |
| CH1 | AN-1 | 23 | 2.00 cm | (a) 1000 kg (b) 158 kg/s |
| CH1 | AN-1 | 25 | (a) 1.3×10^3 kg/m ³ | 1.9×10^5 kg |
| CH1 | AN-1 | 27 | (a) 2.542 kg (b) 0.02g | (a) 1.18×10^{-29} m ³ (b) twice the radius, or 2.82×10^{-10} m |

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|---------|------|---------|----------------------------------|---|
| CH2 | AN-1 | 1 | (a) 0 (b) 0 | 13 m |
| CH2 | AN-1 | 3 | (a) 3.27 km/h (b) 6.33 km/h | (a) 40 km/h (b) 40 km/h (c) 2.00 h, 80 km |
| CH2 | AN-1 | 7 | (a) 35 km (b) 16 km | 60 km |
| CH2 | AN-1 | 11 | 25.00 m/s | 128 km/h |
| CH2 | AN-1 | 27 | $1.60 \times 10^3 \text{ m/s}^2$ | (a) 1.6 m/ s. (b) 18 m/ s |
| CH2 | AN-1 | 33 | 2.0 s | (a) -3.56 m/s^2 (b) 30.3 km/h |
| CH2 | AN-1 | 45 | 122.5 m | (a) 31.3 m/s (b) 6.4 s |
| CH2 | AN-1 | 47 | (a) 46 m/s (b) 6.1 s | (a) 29.4 m (b) 2.45 s |

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|---------|------|---------|---|---|
| CH3 | AN-1 | 3 | 23 | (a) 47.2 m (b) -58° or 122° $A_x = -25.0$ m $A_y = +40.0$ m |
| CH3 | AN-1 | 5 | (a) 1.8 m (b) 69° north of due east | (a) 156 km (b) 129.8° counterclockwise from east, or 39.8° west from north, or 50.2° north from west |
| CH3 | AN-1 | 9 | (a) $(5.0 - 2.0\text{m})\hat{i} - (4.0 + 2.0\text{m})\hat{j} + (2.0 + 5.0\text{m})\hat{k}$ (b) $(5.0 + 2.0\text{m})\hat{i} + (-4.0 - 2.0\text{m})\hat{j} + (2.0 - 5.0\text{m})\hat{k}$ (c) $(-5.0 - 2.0\text{m})\hat{i} + (4.0 + 2.0\text{m})\hat{j} + (-2.0 + 5.0\text{m})\hat{k}$ | (a) $(3.0\hat{i} - 2.0\hat{j} + 5.0\hat{k})$ m (b) $(5.0\hat{i} - 4.0\hat{j} - 3.0\hat{k})$ m (c) $(-5.0\hat{i} + 4.0\hat{j} + 3.0\hat{k})$ m |
| CH3 | AN-1 | 25 | 51° west of due north | 2.6 km |
| CH3 | AN-1 | 35 | (a) $-12.6\hat{k}$ (b) -18.1 | (a) - 18.8 (b) 26.9 |
| CH3 | AN-1 | 41 | 15° | 22° |

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|---------|------|---------|---|--|
| CH4 | AN-1 | 1 | 7.8 m | (a) 6.2 m |
| CH4 | AN-1 | 3 | $(-2.0 \text{ m})\hat{i} + (8.0 \text{ m})\hat{j} - (13 \text{ m})\hat{k}$ | $(-2.0 \text{ m})\hat{i} + (6.0 \text{ m})\hat{j} + (-10 \text{ m})\hat{k}$ |
| CH4 | AN-1 | 7 | $(-0.90 \text{ m/s})\hat{i} + (1.6 \text{ m/s})\hat{j} - (0.60 \text{ m/s})\hat{k}$ | $(-0.70\hat{i} + 1.40\hat{j} - 0.40\hat{k}) \text{ m/s}$ |
| CH4 | AN-1 | 11 | (a) $(63.0 \text{ m})\hat{i} - (641 \text{ m})\hat{j}$ (b) $(75.0 \text{ m/s})\hat{i} - (864 \text{ m/s})\hat{j}$ (c) $(54.0 \text{ m/s}^2)\hat{i} - (864 \text{ m/s}^2)\hat{j}$ (d) -85° | (a) $(600\hat{i} - 106\hat{j}) \text{ m}$ (b) $(19.0\hat{i} - 224\hat{j}) \text{ m/s}$ (c) $(24.0\hat{i} - 336\hat{j}) \text{ m/s}^2$ (d) -85.2° or 94.8° |
| CH4 | AN-1 | 13 | (a) $(6 \text{ m/s}^2)r\hat{j} + (1 \text{ m/s})\hat{k}$ (b) $(6 \text{ m/s}^2)\hat{j}$ | (a) $8r \hat{j} + \hat{k}$ (b) $8\hat{j}$ |
| CH4 | AN-1 | 17 | $(48 \text{ m/s})\hat{i}$ | $(32 \text{ m/s})\hat{i}$ |
| CH4 | AN-1 | 23 | (a) 2.87 s (b) 818 m (c) 28.1 m/s | (a) 3.03 s (b) 758 m (c) 29.7 m/s |
| CH4 | AN-1 | 29 | 80.4° | 78.5° |
| CH4 | AN-1 | 33 | (a) 147 m/s (b) 696 m (c) 116 m/s (d) -149 m/s | (a) 202 m/s (b) 806 m (c) 161 m/s (d) -171 m/s |
| CH4 | AN-1 | 51 | (a) 2.3° (b) 1.1 m (c) 18° | (a) 2.3° (b) 1.4 m (c) 17.8° , or approximately 18° to two significant figures |

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|---------|------|---------|---|---|
| CH5 | AN-1 | 3 | (a) 5.20 N (b) 3.00 N (c) $(5.20 \text{ N})\hat{i} + (3.00 \text{ N})\hat{j}$ | (a) 1.88N (b) 0.684N (c) $(1.88 \text{ N})\hat{i} + (0.684 \text{ N})\hat{j}$ |
| CH5 | AN-1 | 9 | (a) 14.1 N (b) -140° (c) -130° | (a) 8.37 N (b) -133° (c) -125° |
| CH5 | AN-1 | 11 | 30 m/s^2 | $+9.0 \text{ m/s}^2$ |
| CH5 | AN-1 | 19 | $1.3 \times 10^5 \text{ N}$ | $1.2 \times 10^5 \text{ N}$ |
| CH5 | AN-1 | 27 | 1.6 mm | $1.5 \times 10^{-3} \text{ m}$ |
| CH5 | AN-1 | 29 | (a) 548 N (b) up (c) 548 N (d) down | (a) 494 N (b) up (c) 494 N (d) down |
| CH5 | AN-1 | 31 | (a) 0.834 m (b) 0.602 s (c) 2.77 m/s | (a) 1.18 m (b) 0.674 s (c) -3.50 m/s |
| CH5 | AN-1 | 33 | $1.6 \times 10^4 \text{ N}$ | $1.8 \times 10^4 \text{ N}$ |
| CH5 | AN-1 | 37 | (a) 0.65 m/s^2 (b) 0.12 m/s^2 (c) 1.9 m | (a) 0.62 m/s^2 (b) 0.13 m/s^2 (c) 2.6 m |
| CH5 | AN-1 | 45 | (a) 33.4 kN (b) 24.6 kN | (a) $3.13 \times 10^4 \text{ N}$ (b) $2.43 \times 10^4 \text{ N}$ |

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| Chapter | Page | Problem | Misplacement | Correction |
|---------|------|---------|------------------------|-------------------------------------|
| CH6 | AN-2 | 5 | (a) 6.0 N (b) 3.6 N | (a) 8.6 N (b) 7.8 N (c) 7.0 N |

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| Chapter | Page | Problem | Misplacement | Correction |
|---------|------|---------|---|---|
| CH7 | AN-2 | 11 | (a) 73.2° (b) 107° | (a) 62.3° (b) 118° |
| CH7 | AN-2 | 17 | (a) 13 kJ (b) - 12 kJ (c) 1.2 kJ (d) 5.6 m/s | (a) 1.2×10^4 J (b) -1.1×10^4 J (c) 1.1×10^3 J (d) 5.4 m/s |
| CH7 | AN-2 | 31 | (a) 7.3 m/s (b) 5.5 m | (a) 6.6 m/s (b) 4.7 m |
| CH7 | AN-2 | 39 | 2.2 J | 4.00 N/m |
| CH7 | AN-2 | 41 | 36 kJ | 5.3×10^2 J. |
| CH7 | AN-2 | 45 | 5.4×10^2 W | 4.9×10^2 W |

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| Chapter | Page | Problem | Misplacement | Correction |
|---------|------|---------|--------------------------------------|---|
| CH8 | AN-2 | 37 | 1.4 m | -0.018 J |
| CH8 | AN-2 | 45 | (a) 3.6 MJ (b) 56 MJ (c) 60 MJ | (a) 30.1 J (b) 30.1 J (c) 0.225 |
| CH8 | AN-2 | 61 | 36.0 m | (a) 1.5×10^{-2} N (b) 3.8×10^2 g |

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|---------|------|---------|--|--|
| CH9 | AN-2 | 25 | (a) 1.20 ms (b) 0.500 N (c) 417 N | (a) 42 kg · m/s (b) 2.1×10^3 N |
| CH9 | AN-2 | 27 | (a) 270 N · s (b) rightward (c) 13.5 kN | (a) 67 m/s (b) $-x$ (c) 1.20×10^3 N (d) $-x$ |
| CH9 | AN-2 | 29 | 6.26 N · s | 5N |
| CH9 | AN-2 | 39 | 8.0 m/s | -3.0×10^{-3} m/s |
| CH9 | AN-2 | 55 | (a) 0.40 m/s (b) 2.4 m/s (c) 0.95 m (d) 6.0 J | (a) 2.0 m/s (b) -1.3 J (c) +40 J |

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| Chapter | Page | Problem | Misplacement | Correction |
|---------|------|---------|--|--|
| CH10 | AN-2 | 1 | (a) 400 rev/min (b) 6.28×10^3 m | 14 rev |
| CH10 | AN-2 | 19 | 0.27 Hz | (a) 2.50×10^{-3} rad/s (b) 20.2 m/s^2 (c) 0 |
| CH10 | AN-2 | 27 | (a) 73 cm/s^2 (b) 0.075 (c) 0.11 | (a) 0.73 m/s^2 (b) 0.075 (c) 0.11 |
| CH10 | AN-2 | 37 | $7.5 \times 10^{-2} \text{ kg} \cdot \text{m}^2$ | $9.7 \times 10^{-2} \text{ kg} \cdot \text{m}^2$ |
| CH10 | AN-2 | 59 | 29.7 m/s | 396 N · m |

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| Chapter | Page | Problem | Misplacement | Correction |
|---------|------|---------|--|--|
| CH11 | AN-3 | 3 | 7.1 m | -3.15 J |
| CH11 | AN-3 | 19 | $(42 \text{ N} \cdot \text{m})\hat{i} - (24 \text{ N} \cdot \text{m})\hat{j} + (22 \text{ N} \cdot \text{m})\hat{k}$ | $-2.0 \text{ N} \cdot \text{m}\hat{i}$ |
| CH11 | AN-3 | 25 | (a) $6.00 \text{ N} \cdot \text{m}\hat{k}$ (b) 165° | (a) $(50 \text{ N} \cdot \text{m})\hat{k}$ (b) 90° |
| CH11 | AN-3 | 51 | (a) $4.00 \times 10^{-2} \text{ kg} \cdot \text{m}^2$ (b) -3.07 J | (a) 267 rev/min (b) 0.667 |

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| Chapter | Page | Problem | Misplacement | Correction |
|---------|------|---------|---|--|
| CH12 | AN-3 | 17 | 7.34 N | 13.6 N |
| CH12 | AN-3 | 19 | (a) 3.6 kN (b) up (c) 4.8 kN (d) down (e) 0.86 kN | (a) 2.7×10^3 N (b) up (c) 3.6×10^3 N (d) down |

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| Chapter | Page | Problem | Misplacement | Correction |
|---------|------|---------|--|--|
| CH14 | AN-3 | 3 | (a) $1.10 \times 10^9 \text{ N}$ (b) $1.10 \times 10^{10} \text{ N} \cdot \text{m}$ (c) 10.0 m | (a) $1.88 \times 10^9 \text{ N}$ (b) $2.20 \times 10^{10} \text{ N} \cdot \text{m}$ (c) 11.7 m |
| CH14 | AN-3 | 7 | (a) 0.25 m^2 (b) $8.7 \text{ m}^3/\text{s}$ | (a) 0.25 m^2 (b) $6.13 \text{ m}^3/\text{s}$ |
| CH14 | AN-3 | 13 | 44 km | 44 km |
| CH14 | AN-3 | 19 | (a) 0.019 atm (b) 0.34 atm | (a) 0.019 atm (b) 0.39 atm |
| CH14 | AN-3 | 27 | 1.1 cm | 9.7 mm |
| CH14 | AN-3 | 37 | 311 m | $1.7 \times 10^6 \text{ Pa}$ |

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|---------|------|---------|--|---|
| CH16 | AN-4 | 19 | (a) 1.50 Hz (b) 2.00 m (c) 3.00 m/s (d) 50.0 cm (e) 150 cm (f) 250 cm | (a) 2.00 Hz (b) 2.00 m (c) 4.00 m/s (d) 0.500 m (e) 1.50 m (f) 2.50 m (g) $x = 0$ (h) $x = 1.00$ m (i) $x = 2.00$ m |
| CH16 | AN-4 | 41 | 2.0 mm | 0.0032 m |

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| Chapter | Page | Problem | Misplacement | Correction |
|---------|------|---------|--------------------------------|--|
| CH17 | AN-4 | 31 | (a) 1.595 kHz (b) 1.630 kHz | (a) 1.023×10^3 Hz (b) 1.037×10^3 Hz |
| CH17 | AN-4 | 67 | 0.49 ms | 0.23 ms |

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|---------|------|---------|--|---|
| CH18 | AN-4 | 11 | 0.92 cm/h | 0.20cm/h |
| CH18 | AN-4 | 13 | 0.11 m | 7.5×10^{-2} m |
| CH18 | AN-4 | 17 | (a) 1.8×10^2 J (b) 1.1×10^2 J (c) 45 J | (a) 1.2×10^2 J (b) 75 J (c) 30 J |
| CH18 | AN-4 | 25 | -60 J | -60 J |
| CH18 | AN-4 | 27 | -1.7°C | -4.2°C |
| CH18 | AN-4 | 63 | 340 K | 348 K |

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|---------|------|---------|--|---|
| CH19 | AN-4 | 17 | (a) 0.67 (b) 1.2 (c) 1.3 (d) 0.40 | (a) 0.67 (b) 1.22 (c) 1.31 (d) 1/3 or 0.33 |
| CH19 | AN-4 | 21 | 540 K | 360 K |
| CH19 | AN-4 | 23 | (a) 7.48 kJ (b) 7.48 kJ (c) 0 (d) 0 (e) -3.62 kJ (f) 3.62 kJ (g) -6.44 kJ (h) -3.86 kJ (i) -2.58 kJ (j) 1.04 kJ (k) 0 (l) 1.04 kJ (m) 0.0492 m ³ (n) 4.01 atm (o) 0.0747 m ³ (p) 1.00 atm | (a) 3.74×10^3 J (b) 3.74×10^3 J (c) 3 (d) 0 (e) -1.81×10^3 J (f) $+1.81 \times 10^3$ J (g) -3.22×10^3 J (h) -1.93×10^3 J (i) -1.29×10^3 J (j) 520 J (k) 0 (l) 520 J (m) 2.46×10^{-2} m ³ (n) 2.00 atm (o) 3.73×10^{-2} m ³³ (p) 1.00 atm |
| CH19 | AN-4 | 25 | -20 J | -15 J |
| CH19 | AN-4 | 41 | 3.2×10^5 Pa | 2.0×10^5 Pa |

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|---------|------|---------|---|--|
| CH20 | AN-4 | 3 | (a) 3.38 kJ (b) 22.0 kJ (c) 15.4% (d) 75.0% (e) greater | (a) 2.27 kJ (b) 14.8 kJ (c) 15.4% (d) 75.0% (e) greater |
| CH20 | AN-4 | 11 | 1.67 | 2.03 |
| CH20 | AN-4 | 21 | (a) 0.250 (b) 0.144 (c) 0.574 (d) 1.39 (e) 1.39 (f) 0 (g) 1.39 (h) 0 (i) -1.06 (j) -1.06 (k) -1.39 (l) -1.06 (m) 0 (n) 1.06 (o) 0 | (a) 0.333 (b) 0.215 (c) 0.644 (d) 1.10 (e) 1.10 (f) 0 (g) 1.10 (h) 0 (i) -0.889 (j) -0.889 (k) -1.10 (l) -0.889 (m) 0 (n) +0.889 (o) 0 |
| CH20 | AN-4 | 25 | (a) 734 J (b) 277 J (c) 457 J (d) 62.3% | (a) 1.47×10^3 J. (b) 5.54×10^2 J (c) 9.18×10^2 J (d) 62.4% |