

Solution Manual for Fundamentals of Engineering Thermodynamics 8th Edition by Moran Shapiro Boettner ISBN 1118412931 9781118412930

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ANSWERS TO SELECTED PROBLEMS

Chapter 2

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- 2.3 35.75, 45
2.6 -4800
2.10 151.9 2.12
297
2.16 11.23
2.19 9.54
2.22 68
2.25 (a) 1.1996, (b) 0.643
2.28 (a) 2, -12. (b) 0.8, -7.33, (c) 0.608, -6.4
2.31 725.4
2.33 Process 1-2: 0, Process 2-3: -554.5, Process 3-4: -400
2.36 (a) 0.096 Btu/s, 0.136 hp, (b) 5.76
2.38 (a) 20, (b) 9 2.41
98
2.44 -1.25×10^{-5}
2.47 (a) 30, (b) 2.56
2.51 2.88
2.53 255
2.55 convection: 0.2, radiation: 0.13
2.59 (a) 4, 4.25, (b) -2, 2
2.63 (a) -3, (b) 85
2.67 (a) 0.25, (b) -50.4, (c) -10.4 (out)
2.71 -310.6

- 2.73 (a) 1.094, (b) 0.637, (c) 2.031
2.76 (a) W_{12} : 16, W_{23} : -9, $W_{31} = 0$, (b) $Q_{12} = 31$, $Q_{23} = -33$, (c) 0.195
2.78 -280.5, 80, refrigeration cycle
2.80 (a) 0.103, (b) -18.8, (c) refrigeration or heat pump cycle
2.84 0.3413
2.87 (a) 200, (b) 50, (c) \$56.1 M/y
2.90 0.45, 3
2.93 \$50
2.96 (a) 5.61, (b) \$711