

## ANSWERS TO SELECTED PROBLEMS

### *Fundamentals of Engineering Thermodynamics*

8<sup>th</sup> Edition by Moran, Shapiro, Boettner, and Bailey, 2014

#### Chapter 4

- 4.3 0.62
- 4.6 685.6, 5710
- 4.8 1100
- 4.10 (b) 1590
- 4.16 (a) 0.351
- 4.19 At 2: 20.3
- 4.23  $0.5 \text{ ft}^3/\text{s}$ ,  $0.039 \text{ lb/s}$
- 4.27 (b) 0.04
- 4.30 0.89
- 4.31 (a) 600.8
- 4.35 0.97
- 4.37 45
- 4.44 2703
- 4.47 133.1
- 4.50 (b) 17,565
- 4.53 -26.6
- 4.56 27.1
- 4.60 86.04
- 4.64 (b) 341
- 4.67 1.84
- 4.74  $9.06 \times 10^6$
- 4.79 14.59
- 4.85 120.01
- 4.87 (b) 168.89
- 4.90 50.2
- 4.97 (a) 4.67
- 4.102 (a) 31.2%
- 4.106 (c) 68%
- 4.108 (b) 16,213
- 4.110 (b) -1
- 4.112 685.9, 2.27
- 4.115 181,522
- 4.118 362.1, 2.099
- 4.123 927.6, 882.1
- 4.128 2.808, 1009
- 4.130 (a) -6.10