

MECE 2335 – Thermodynamics I
Homework Assignments – Spring 2012
Textbook: Fundamentals of Engineering Thermodynamics
(Moran and Shapiro, 5th & 6th Editions)

HW#1 → 1.14, 1.26, 1.35, 1.40, 1.43, 1.52, 1.58 (5e)

HW#1 → 1.8, 1.20, 1.31, 1.37, 1.43, 1.51, 1.55 (6e)

Example Problems: 1.18(5e) or 1.13(6e), 1.25(5e) or 1.19(6e), 1.34(5e) or 1.30(6e), 1.36(5e) or 1.32(6e), 1.37(5e) or 1.33(6e), 1.38(5e) or 1.34(6e)

HW#2 → 2.27, 2.34, 2.57, 2.59, 2.66, 2.69, 2.74, 2.88 (5e)

HW#2 → 2.27, 2.33, 2.56, 2.58, 2.66, 2.68, 2.76, 2.92 (6e)

Example Problems: 2.8(5e & 6e), 2.28(5e), 2.33(5e) or 2.34(6e), 2.54(5e) or 2.53(6e), 2.67(5e & 6e), 2.72(5e) or 2.71(6e), 2.75(5e), 2.85(5e) or 2.88(6e)

HW#3 → 3.2, 3.7, 3.22, 3.31, 3.48, 3.66, 3.79, 3.97, 3.100, 3.106 (5e)

HW#3 → 3.6, 3.17, 3.25, 3.32, 3.58, 3.76, 3.97, 3.125, 3.128, 3.129 (6e)

Example Problems: 3.1(5e) or 3.5(6e), 3.9(5e) or 3.18(6e), 3.24(5e) or 3.27(6e), 3.50(5e) or 3.52(6e), 3.64(5e) or 3.73(6e), 3.80(5e) or 3.98(6e), 3.84(5e) or 3.101(6e), 3.104(5e) or 3.127(6e)

HW#4 → 4.6, 4.14, 4.27, 4.33, 4.42, 4.56, 4.58, 4.74, 4.91a (5e)

HW#4 → 4.7, 4.13, 4.35, 4.40, 4.51, 4.69, 4.73, 4.89, 4.110a (6e)

Example Problems: 4.4(5e) or 4.3(6e), 4.13(5e) or 4.12(6e), 4.16(5e) or 4.15(6e), 4.28(5e) or 4.33(6e), 4.41(5e), 4.57(5e) or 4.72(6e), 4.77(5e) or 4.92(6e), 4.89(5e) or 4.108(6e)

HW#5 → 5.21, 5.26, 5.42, 5.54, 5.61, 5.65 (5e)

HW#5 → 5.31, 5.43, 5.63, 5.64, 5.75, 5.79 (6e)

Example Problems: 5.20(5e), 5.45(5e), 5.47(5e), 5.50(5e), 5.62(5e) or 5.76(6e), 5.63(5e), 5.64(5e) or 5.78(6e)

HW#6 → 6.22, 6.43, 6.47, 6.76 (5e)

HW#6 → 6.4, 6.30, 6.35, 6.65 (6e)

HW#7 → 6.94, 6.124, 6.145, 6.169 (5e)

HW#7 → 6.103, 6.114, 6.148, 6.163 (6e)

Example Problems: 6.21(5e) or 6.3(6e), 6.42(5e), 6.70(5e) or 6.60(6e), 6.77(5e) or 6.66(6e), 6.88(5e) or 6.82(6e), 6.103(5e), 6.115(5e) or 6.107(6e), 6.159(5e), 6.162(5e)
