
HOMEWORK PROBLEMS: Lesson 29

Adapted from Moran, Shapiro, Boettner, & Bailey, *Fundamentals of Engineering Thermodynamics*, 8th Ed.

29-1 Using Eq. 12.48 of your textbook, determine the humidity ratio and relative humidity for each case below.

- (a) The dry-bulb and wet-bulb temperatures in a conference room at 1 atm are 24 and 16°C, respectively.
- (b) The dry-bulb and wet-bulb temperatures in a factory space at 1 atm are 75 and 60°F, respectively.
- (c) Repeat parts (a) and (b) using the psychrometric chart