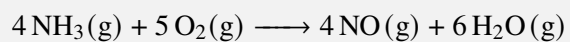


Chapter 13

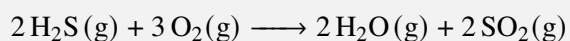
Chemical-Reaction Equilibria

Problem 13.1 Develop expressions for the mole fractions of reacting species as functions of the reaction coordinate for:

- (a) A system initially containing 2 mol NH_3 and 5 mol O_2 and undergoing the reaction:



- (b) A system initially containing 3 mol H_2S and 5 mol O_2 and undergoing the reaction:



- (c) A system initially containing 3 mol NO_2 , 4 mol NH_3 , and 1 mol N_2 and undergoing the reaction:

