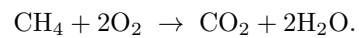


Thermodynamics - Pressure and Temperature - Combustion of Methane and air

March 28, 2012

The total reaction of interest is,



The heat of combustion for methane and diatomic oxygen is $\Delta H = -891 \frac{\text{kJ}}{\text{mol}}$. Determine the amount of energy that can be used as work from this reaction per mol consumed.