**South Dakota School of Mines and Technology**

**Department of Materials and Metallurgical Engineering**

MET 321 Calculations Lab #6 18

18. Endo gas generators are used to produce carburizing gas. The below fuel is to be used. Given the air fuel ratio, determine the indicated equilibrium output gas composition at 980 °C using ThermoCalc.



Active worksheet ↑

Data at 1253 K

|  |  |  |
| --- | --- | --- |
| CO+H2O=CO2+H2 | K | 0.6314 |
| CO+0.5O2=CO2 | Ko | 1.751E+07 |
| CO2+CH4=2H2+2CO | Km | 9935 |