2.996 Fundamentals of Advanced Energy Conversion Lecture Memo

Lecture number: 3 Date: February 11th, 2004

- Entropy in an open system
- Isentropic process
- Brayton cycles : Compressor and turbine efficiencies Cycle efficiency, w_{net} Recuperative cycle
- Steam cycles : Conventional, superheating, reheat and regeneration cycle
- Combined cycles
- Gas mixtures: Molar and mass fractions, molecular weight, partial pressure Internal energy, enthalpy and ehthropy.