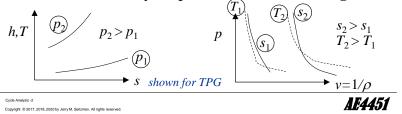






Ideal Cycles and State Diagrams

- Simply analysis of many real devices with ideal cycle
 - 1. ideal fluid, e.g., thermally, calorically perf. gas
 - 2. simplify processes, e.g., combustor replaced by nonreacting heat exchanger
 - 3. open \rightarrow closed, e.g., surroundings (atmos.) = ht xchngr
 - 4. reversible, i.e., all components internally reversible
- Useful to visualize cycle processes on state diagrams



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