
Thermodynamics I
Lecture 31: Vapor power cycle
improvements
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Last Lecture

Ideal Rankine cycle

- » **Thermal efficiency of the Rankine cycle**
- » **Increasing cycle efficiency by adding superheat, by increasing superheat temperature, or by lowering condenser pressure**
- » **Effect of turbine irreversibilities (major) and pump irreversibilities (negligible) on cycle efficiency**

This Lecture

Rankine cycle improvements

- » **Reheat**
- » **Regeneration**