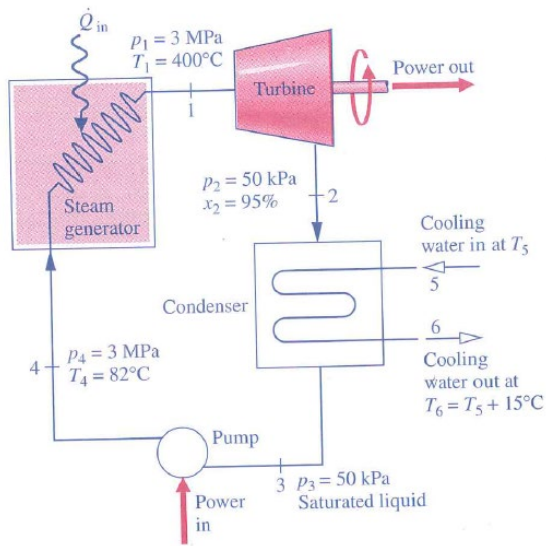


UNIVERSITY OF ILLINOIS
DEPARTMENT OF NUCLEAR, PLASMA AND RADIOLOGICAL ENGINEERING
NPRE 449 – Nuclear Systems Engineering and Design

Homework #5

1. Consider the simple system below where the ultimate heat sink is at NTP (Normal Temperature and Pressure). Assume energy loss, KE and PE effects are all negligible. Find (a) thermal efficiency, (b) mass flow rate of cooling water.



2. T-K 6-2
3. T-K 6-3 (parts 1 and 2 only)