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Pressure 13.8bar; Specific volume 0.143  
Internal energy 2590 KJ/Kg; Velocity  
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Sayed et al., 1997).

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Problem 4 - How much heat is needed to completely vaporize 100 kg of water from temperature  $T_1 = 20.0^\circ\text{C}$  if the pressure is maintained at a constant  $P = 200\text{ kPa}$  absolute?  $T_v, P = 200\text{kPa}$ . 1. 2.

Solution: The process is shown in the T-v diagram drawn on the left.

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Constant-pressure process (heating) in a piston-cylinder device. Problem source: Q2.50, Cengel and Boles,



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Thermodynamics 1. Two kg of air at

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500kPa, 80°C expands adiabatically in a closed system until its volume is doubled and its temperature becomes equal to that of the surroundings which is at 100kPa and 5°C.

## **Solved Problems: Thermodynamics Second Law**

Suggested courses (NOTE: courses may

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or may not apply to major requirements; check with a major advisor): Aerospace Science and Engineering 127, 129; Civil and Environmental Engineering 130, 149, 163; Engineering 122, 160; Mechanical Engineering 121, 134, 139, 152. Heat Transfer, Thermodynamics and Energy Systems

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