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5)* □□□□ □□□□ How to use
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~~Thermodynamics 3 5 Using
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of , and holds steam at C.

1/4 of the volume is in

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remaining at vapor form.

Determine the pressure of
the steam, and quality of
the saturated mixture, and
density of the mixture.

Given: Volume (V)

Temperature (T) C. Find: The

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Phase Change and Property

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phases — solid, liquid and gas.

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The change in internal energy can be found from the first law of thermodynamics:

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$\Delta U = Q - W = (3.5 \times 10^5 \text{ J}) - (2.1 \times 10^5 \text{ J}) = 0.9 \times 10^5 \text{ J} = 90 \text{ kJ}.$) A gas in a cylinder is kept at a constant pressure of $3.5 \times 10^5 \text{ Pa}$ while 300 kJ of heat are added to it, causing the gas to expand from 0.9 m^3 to

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1.5 m³.
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3-5 3-23 Problem 3-22 is
reconsidered. The missing
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be determined using EES, and the solution is to be repeated for refrigerant-134a, refrigerant-22, and ammonia.

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-Thermodynamics is the study of the relationship between the energy transformation in the system and other physical quantities such as temperature, pressure and

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volume (P, V, T). -A thermodynamic equation of state is a mathematical relationship of the thermodynamic or state variables, such as pressure, volume and temperature.

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Chapter 3-3 Heat transfer is energy in transition due to a temperature difference. The three modes of heat transfer are conduction, convection, and radiation.

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Conduction through Plane Walls
Conduction heat transfer is a progressive exchange of energy between the molecules of a substance. Fourier's law of heat conduction is $Q = -kA \frac{dT}{dx}$ here Q !

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