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gas with molar specific heat at constant volume C 1, and so on.

Find the molar specific heat at constant volume of the mixture, in

terms of the molar specific heats and quantities of the three

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Example of Rankine Cycle - Problem with Solution. Let assume

the Rankine cycle, which is the one of most common

thermodynamic cycles in thermal power plants. In this case

assume a simple cycle without reheat and without with

condensing steam turbine running on saturated steam (dry

steam). In this case the turbine operates at steady state with inlet

conditions of 6 MPa, t = 275.6°C, x = 1 (point 3).

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Summary of the Thermodynamic Problem Solving Technique.

Begin by carefully reading the problem statement completely

through. Step 1. Make a sketch of the system and put a dashed

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