A white text with black text

AI-generated content may be incorrect.

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We understand the interaction taking place between the cold copper and water gas to involve the full state change from gas to liquid. As such, the typical thermal equilibrium equation will involve a more complex heat transfer, with some going towards the formation of the liquid water as opposed to the temperature. This is shown as:
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The heat is first used to convert the gaseous water to a liquid:
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Notice that this does not affect the temperature of the gas, but it does however cool the copper mass by the quantised amount:
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We are now left with 1 mol of liquid water at 373K and a 2kg copper block at 329.8K, thus given no more state changes are present, we can calculate the final temperature.

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|  |  | As the copper mass undergoes no phase change, all the heat transferred went into changing the temperature. As such we understand the total heat change to be the heat required to take the mass from 273K to 333.9K: |
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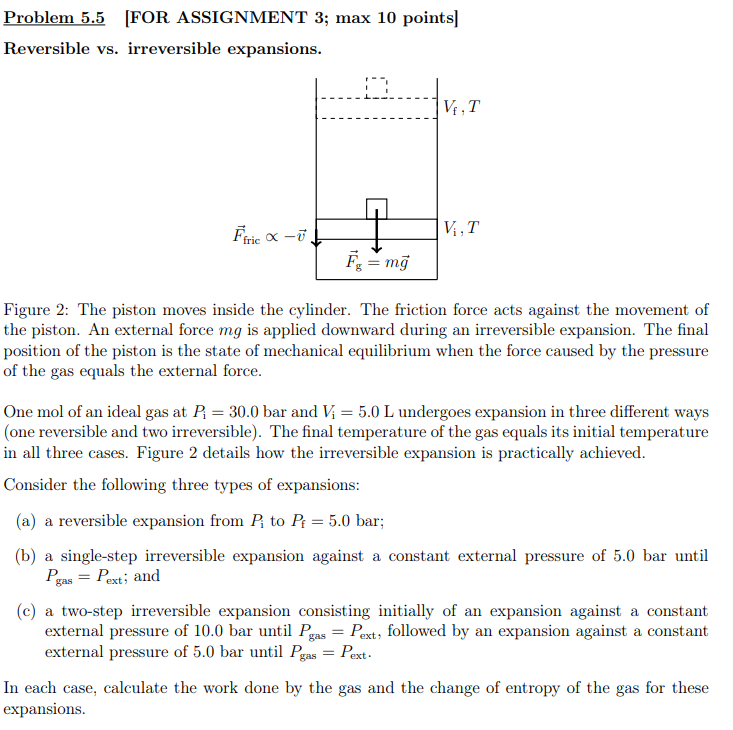

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For water we understand the substance to experience two separate changes in entropy, the change experienced during phase change, and the change as the temperature is decreased. We can solve for the entropy change as follows:


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Then, for the entropy change of the entire system we sum the change of each component:

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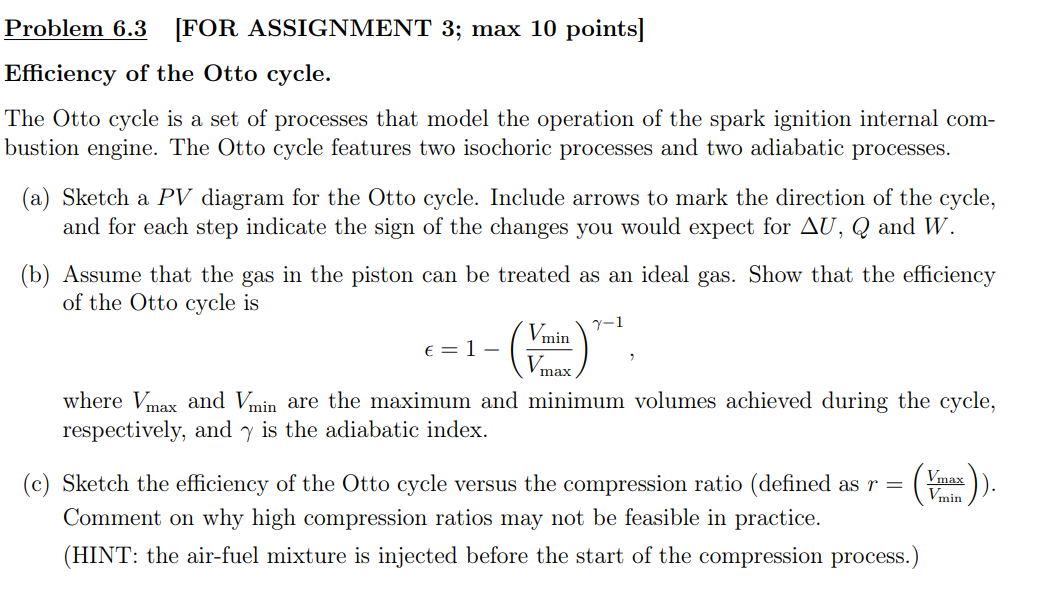

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Combustion implies that the gas does work on the piston, which further implies the work calculated by the integral of a PV diagram must be net positive and thus it must be clockwise.

Stage 1: As the process is adiabatic, by definition the isolated system will have a 0J value for Q. We clearly notice that the area under this curve positive, and thus work is positive. As a result, we have a final positive ΔU value.

Stage 2: During this isochoric process, the work is evidently 0J, however, the decrease in pressure implies a similar decrease in internal energy ΔU and thus a negative Q.

Stage 3: This adiabatic process is similar to the first, however in the opposite direction, and thus the work is negative. This results in a negative ΔU as Q is adiabatically 0J.

Stage 4: This final isochoric process involves an increase in pressure. As work is 0J, we understand that heat is transferred into the system, positive Q and thus ΔU is positive.

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As can be seen in the figure, for just a few adiabatic indices, we find the curve to start at r = 1 and increase to some asymptote, with the highest efficiencies being those with curves approaching epsilon = 1. Despite the efficiency for all adiabatic indices indicating an increase as the compression ratio is increased, this limit can only go so far. The compression ratio is a direct measure of the maximum to minimum volume, and so as it increases, so too does the temperature. Significantly, as the air-fuel mixture is injected prior to compressions, if the temperature increases enough, spontaneous combustion in unwanted locations may occur without a spark. As a result, it is likely that high compression ratios will not be feasible in practice.

A paper with text and images

AI-generated content may be incorrect.

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