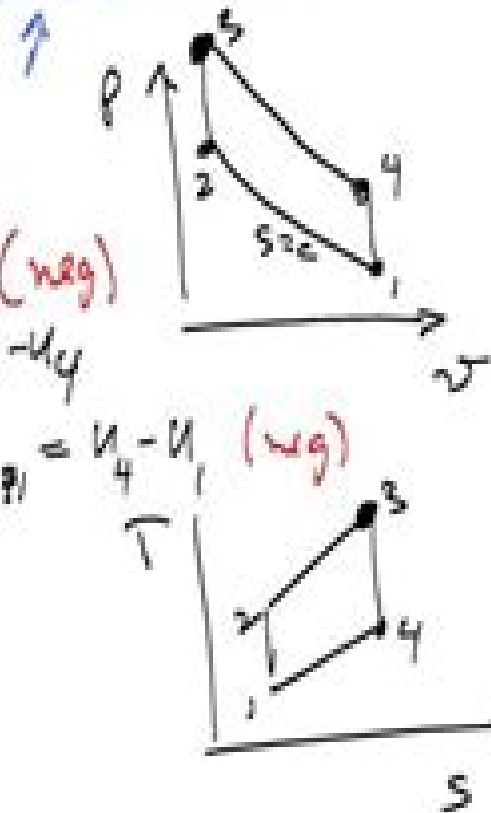


Otto cycle - Air-standard analysis, variable specific heats

An air-standard Otto cycle operates with 300 K and 95 kPa at the start of the compression stroke. The compression ratio is 9.5 and the maximum temperature of the cycle is 1100 K. Consider variable specific heats and determine the

- temperature at the end of the compression stroke, in K
- peak pressure, in kPa
- net heat addition for the cycle, in kJ/kg
- net work for the cycle, in kJ/kg
- thermal efficiency, in kJ/kg



$$q_{23} = u_3 - u_2$$

$$w_{12} = u_1 - u_2 \text{ (neg)}$$

$$w_{34} = u_3 - u_4$$

$$q_{41} = u_4 - u_1 \text{ (neg)}$$

state	P, kPa	T, K	u, kJ/kg	v_r
1	95	300	214.07	621.2
2	2156	716.6	525.5	65.389
3		1100	845.3	18.896

$$\frac{P_1 v_1}{T_1} = \frac{P_2 v_2}{T_2} = \frac{P_3 v_3}{T_3}$$

$$r = 9.5$$

$$\frac{v_1}{v_2} = 9.5 = \frac{v_{r,1}}{v_{r,2}}$$

$$v_{r,2} = \frac{v_{r,1}}{9.5}$$

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L Darling-Hammond



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