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Lecture Notes On TurbomachineryAlso $Dh = Cp dT = V dp$ And $Pv = RT$. Thus, $P_{out} P_{in} T_{out} T_{in} Cp R (9)$ Determining $T_{out} = T_{in}$ From Eq. (8) And Substituting Into Eq. (9) Yields $P_{out} P_{in} = 1 + W/2 Cp T_{in} Cp R (10)$ Using $Cp = 1 kJ/kg K, T_1 = 288K$ Gives $P_{out} P_{in} = 2:55$ The Device Studi Mar 14th, 2024

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