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| Ees rankine cycle example | | |
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| In a thermal power plant, one of the most common thermodynamic cycles is the Rankine cycle. In this case, it assumes a simple cycle without reheating without a condensed steam turbine running on saturated steam (dry steam). In this case, the turbine works in a normal state with inlet conditions of 6MPa, t = 275.6°C, x = 1 (point 3). Steam is 0.008 MPa, 41.5°C and x = 7?? With pressure, it remains this stage of the turbine. (4 points). Calculation: The steam quality of the outlet corresponds to the work performed by the pump (1 - 2), corresponding to the work performed by the pump, WP. Enthalpy difference between these two states (3 - 4) steam, WT. These two states (3 - 4) steam, WT. These two states corresponding to the work performed by the pump (4 - 2), corresponding to the work performed by the pump, WP. Enthalpy difference between these two states (2 - 3) corresponding to the work performed by the fact that the pressure p4 = 0.008 MPa and specific entropy is constant for isentropic expansion (s3 = s4 = 5.89 kJ / kgK for 6 MPa). Certain entropy of saturated liquid water (x = 0) and dry steam (x = 1) can be selected from the steam table. 64 5/19 경우, 3/19 4/20 3/19 4/20 3/19 4/20 3/19 4/20 3/19 4/20 3/19 4/20 3/19 3/19 4/20 3/19 4/20 3/19 3/19 4/20 3/19 3/19 4/20 3/19 3/19 4/20 3/19 3/19 4/20 3/19 3/19 3/19 3/19 3/19 3/19 3/19 3/19 | | |
| and the temperature of the cold reservoir is 41.5 °C (31.7K). The thermodynamic efficiency of this cycle can be calculated by the following formula: therefore θth = (945 – 5.7) / 2605.3 = 0.361 = 36.1% ME 322 thermodynamic properties of the material, The first and second laws of thermodynamics, mechanical engineering thermal components and cycles, psychrome and psychrome dynamics and combustion systems. Prerequisites: Chemistry 111, Mathematics 310, Phys 211. Working Hours (GJ 234H) Monday 2:30 a.m. to 2:30 p.m. Thursday 3:30 p.m. Spring 2020 Lectures, zoom recordings will allow you to participate in the classroom. | | |
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