

QUESTION 2

POWER MACHINES N6

A boiler plant burning fuel with a calorific value of 32 MJ/kg generates superheated steam at a pressure of 3,8 MPa and a temperature of 298 °C. At the entrance of the superheater the steam is 98,6% dry. The temperature of the feed water is 29 °C and at the exit from the economiser the feed water has a temperature of 86 °C. The economiser absorbs 2 188 kJ/kg of the heat supplied. The specific heat capacity of the superheated steam is 3,2 kJ/kg.K. The temperatures at the entrance and exit of the air preheater are 26 °C and 137 °C respectively. The air-fuel ratio is 18:1. The temperature of the gas at the chimney base is 177 °C. The specific heat capacity of the air is 1,005 kJ/kg.K. The specific heat capacity of the flue gas is 1,045 kJ/kg.K.

Calculate the following by using steam tables only:

STEAM

2.1 The mass of steam generated in kg/kg fuel

2.2 The specific enthalpy of the steam generated

PLANT

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TD Snyder

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'TD Snyder' text.

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