

3.7 A combined cycle power plant has a total power output of 300 MW. The gas turbine operates with a pressure ratio of 10, air inlet temperature of 30 °C and the maximum gas temperature of 1000 °C. There is the provision for supplementary firing in which the combustion of additional fuel raises the gas temperature to 900 °C. The exhaust gas from the GT flows to a HRSG from which the gas leaves at 110 °C. In the bottoming steam plant the steam is supplied to the turbine at 80 bar, 500 °C and the condenser pressure is 0.1 bar. The calorific value of fuel burned is 43.2 MJ/kg. Neglect the effect of

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the mass flow rate of fuel on the air flow and take $c_p = 1.11$ kJ/kg K and $\gamma = 1.33$ for combustion gases and $c_p = 1.005$ kJ/kg K and $\gamma = 1.4$ for air. Neglect pump work. Determine (a) the flow rates of air and steam required, (b) the power outputs of the gas turbine and steam turbine, (c) the overall efficiency of the combined plant, and (d) the air-fuel ratio. Draw the flow and T-s diagrams.

[Ans. (a) 442.62 kg/s, 121.056 kg/s, (b) 146.47 MW, 153.53 MW,
(c) 53.5%, (d) 34.1]

Mechanical Engineering Text Power Plant With Answer

L Darling-Hammond



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USER MANUAL - SRV02 Rotary Servo Base Unit The Quanser SRV02 rotary servo plant, pictured in Figure 1.1, consists of a DC motor that is encased in a solid aluminum frame and equipped with a planetary ... SRV02 Position Control using QuaRC This laboratory guide contains pre-lab and in-lab exercises demonstrating how to design and implement a position controller on the Quanser SRV02 rotary ... Quanser SRV02 Workbook Jan 1, 2019 — Hakan Gurocak, Washington State University Vancouver, USA, for rewriting this manual to include embedded outcomes assessment. SRV02 Workbook - ... SRV02 User Manual SRV02 User Manual. 1. Presentation. 1.1. Description. The Quanser SRV02 rotary servo plant, pictured in Figure 1, consists of a DC motor that is encased in a. Quanser SRV02 Workbook Jan 1, 2019 — SRV02 Manual (Student).pdf. This laboratory guide contains pre-lab questions and lab experiments demonstrating how to model the Quanser. SRV02 ... SRV02 User Manual This module is designed to mount to a Quanser rotary servo plant (SRV02). The sensor shaft is aligned with the motor shaft. One end of a rigid link is mounted ... SRV02_Rotary Pendulum_User Manual.sxw The following table describes the typical setup using the complete Quanser solution. It is assumed that the ROTPEN is being used along with an SRV02,

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