

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

**H Kauffman**



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Achim Schmidt,2022-05-05 The book covers the classical areas of technical thermodynamics The first part deals with the basic equations for energy conversion and idealized fluids The second part deals with real fluids which can be subject to a phase change for example Furthermore thermodynamic mixtures of fluids are considered e g humid air and gas mixtures In the last part of the book combustion processes and chemical reactions are presented and thermodynamically balanced In each chapter there are examples and exercises to deepen the theoretical knowledge Compared to the first edition the topic of thermodynamic state diagrams has been greatly revised State diagrams of relevant refrigerants have been added as well as a formulary The section on chemically reacting systems has been expanded and thoroughly revised In the basic chapters tasks and examples have been added to consolidate the understanding of the subject The book is aimed at students of mechanical engineering and professional engineers     MECHANICAL ENGINEERING, ENERGY SYSTEMS AND SUSTAINABLE DEVELOPMENT -Volume IV Konstantin V. Frolov,Oleg N. Favorsky,R.A. Chaplin and Christos Frangopoulos,2009-04-15 Mechanical Engineering Energy Systems and Sustainable Development theme is a component of Encyclopedia of Physical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Mechanical Engineering Energy Systems and Sustainable Development with contributions from distinguished experts in the field discusses mechanical engineering the generation and application of heat and mechanical power and the design production and use of machines and tools These five volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs     Coal Age ,1923 Vols for 1955 62 include Mining guidebook and buying directory     *Popular Mechanics* ,1969-10 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle     **A Textbook of Engineering Thermodynamics** R. K. Rajput,2010-07     *Practical Engineer* ,1912     **Accountants' Index** American Institute of Certified Public Accountants,1928     **Flying Magazine** ,1942-02     **Technical Books** Pratt Institute. Free Library,1920     Quarterly Bulletin Hackley Public Library,1924     A Course in Mechanical Drawing Louis Rouillion,1921     Popular Mechanics ,1971-05 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle     Bulletin of Additions to the Libraries, Classified, Annotated and Indexed Glasgow (Scotland). Public Libraries,1919     Questions and Answers Relating to Modern Automobile Design, Construction, Driving and Repair ... Victor Wilfred Pagé,1917

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