

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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158 *Power Plant Engineering*

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

Siddappa N.Byrareddy



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Table of Contents Mechanical Engineering Text Power Plant With Answer

1. Understanding the eBook Mechanical Engineering Text Power Plant With Answer
 - The Rise of Digital Reading Mechanical Engineering Text Power Plant With Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering Text Power Plant With Answer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanical Engineering Text Power Plant With Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering Text Power Plant With Answer
 - Personalized Recommendations
 - Mechanical Engineering Text Power Plant With Answer User Reviews and Ratings
 - Mechanical Engineering Text Power Plant With Answer and Bestseller Lists

5. Accessing Mechanical Engineering Text Power Plant With Answer Free and Paid eBooks
 - Mechanical Engineering Text Power Plant With Answer Public Domain eBooks
 - Mechanical Engineering Text Power Plant With Answer eBook Subscription Services
 - Mechanical Engineering Text Power Plant With Answer Budget-Friendly Options
6. Navigating Mechanical Engineering Text Power Plant With Answer eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanical Engineering Text Power Plant With Answer Compatibility with Devices
 - Mechanical Engineering Text Power Plant With Answer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Engineering Text Power Plant With Answer
 - Highlighting and Note-Taking Mechanical Engineering Text Power Plant With Answer
 - Interactive Elements Mechanical Engineering Text Power Plant With Answer
8. Staying Engaged with Mechanical Engineering Text Power Plant With Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Engineering Text Power Plant With Answer
9. Balancing eBooks and Physical Books Mechanical Engineering Text Power Plant With Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Engineering Text Power Plant With Answer
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanical Engineering Text Power Plant With Answer
 - Setting Reading Goals Mechanical Engineering Text Power Plant With Answer
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanical Engineering Text Power Plant With Answer
 - Fact-Checking eBook Content of Mechanical Engineering Text Power Plant With Answer
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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problem is that it is always powerless and tends to stall. When turning the air conditioning on, this failure is even more ...

Rough Idle: Hi Again Everyone, My Lanos ... May 21, 2009 — Hi Again everyone, my lanos idles very rough, doesn't stall, seems to lack power when driving, recently replaced plugs, leads, air filter ... My 2001 Daewoo has a rough idle after. Dec 30, 2012 — It shakes and studders a lot. Sometimes the car stalls and I have to press the gas pedal in order for the car to keep running. After it warms up ... my 2001 daewoo lanos keeps dying when i come to a stop Jun 2, 2014 — I have Daewoo lanos 16v it can't start plugs firering timing is good i spre y qikstart meas start fluid nothing happen it doesn't have camshaft ... Daewoo Matiz Idle Woes - YouTube Daewoo Lanos Idle Air Control Valve Order Daewoo Lanos Idle Air Control Valve online today. Free Same Day Store Pickup. Check out free battery charging and engine diagnostic testing while you ...

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