

UNIT-I

1. Explain with the help of neat diagrams a regenerative cycle. Derive an expression for its thermal efficiency.
2. In a regenerative cycle the inlet conditions are 40 bar and  $400^{\circ}\text{C}$  steam is bled at 10bar in regenerative heating. The exit pressure is 0.8bar neglecting pump work determine the efficiency of the cycle.
3. Describe the different processes of rankine cycle. Derive the expression for its efficiency and show then on p-v and T-s diagrams.
4. A simple rankine cycle works between pressure of 30bar and 0.04bar the initial condition of steam being dry saturated calculate the cycle efficiency, work ratio and specific steam consumption.
5. Explain with the help of neat diagrams of a carnot cycle. Derive the expression for its efficiency and show p-v and T-s diagrams.
6. In a reheating rankine cycle steam is supplied to a turbine at  $6\text{MN/m}^2$  and a temperature of  $450^{\circ}\text{C}$ . It is expanded in the first stage to a pressure of  $1\text{MN/m}^2$ . The steam is then passed back to the boiler in which it is reheated of  $1\text{MN/m}^2$  to  $370^{\circ}\text{C}$ . It is then passed to the turbine to be expanded in the second stage down to a pressure of  $0.2\text{MN/m}^2$ . The steam is again reheated to  $320^{\circ}\text{C}$  at this pressure. It is send to turbine for the last stage expansion to a condenser pressure of  $0.02\text{MN/m}^2$ . Using enthalpy – entropy chart for steam determine (i) The total theoretical power produced per kg of steam (ii)The thermal efficiency of the cycle, considering pump work (iii) The thermal efficiency of the cycle assuming single stage expansion with no reheat and considering pump work.

# Thermal Engineering Question Bank

**Hongru Du**



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## **Table of Contents Thermal Engineering Question Bank**

1. Understanding the eBook Thermal Engineering Question Bank
  - The Rise of Digital Reading Thermal Engineering Question Bank
  - Advantages of eBooks Over Traditional Books
2. Identifying Thermal Engineering Question Bank
  - 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 Thermal Engineering Question Bank
  - User-Friendly Interface
4. Exploring eBook Recommendations from Thermal Engineering Question Bank
  - Personalized Recommendations
  - Thermal Engineering Question Bank User Reviews and Ratings
  - Thermal Engineering Question Bank and Bestseller Lists
5. Accessing Thermal Engineering Question Bank Free and Paid eBooks
  - Thermal Engineering Question Bank Public Domain eBooks
  - Thermal Engineering Question Bank eBook Subscription Services
  - Thermal Engineering Question Bank Budget-Friendly Options
6. Navigating Thermal Engineering Question Bank eBook Formats

- ePub, PDF, MOBI, and More
  - Thermal Engineering Question Bank Compatibility with Devices
  - Thermal Engineering Question Bank Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Thermal Engineering Question Bank
    - Highlighting and Note-Taking Thermal Engineering Question Bank
    - Interactive Elements Thermal Engineering Question Bank
  8. Staying Engaged with Thermal Engineering Question Bank
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Thermal Engineering Question Bank
  9. Balancing eBooks and Physical Books Thermal Engineering Question Bank
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Thermal Engineering Question Bank
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Thermal Engineering Question Bank
    - Setting Reading Goals Thermal Engineering Question Bank
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Thermal Engineering Question Bank
    - Fact-Checking eBook Content of Thermal Engineering Question Bank
    - 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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