



Example 4.5

Steam at 1 MPa, 600°C, expands in a turbine to 0.01 MPa. If the process is isentropic, find the final temperature, the final enthalpy of the steam, and the turbine work.

Solution:

mass balance: $\dot{m}_1 = \dot{m}_2 = \dot{m}$

energy balance

$$\dot{E}_{in} = \dot{E}_{out}$$

$$\dot{m}_1 h_1 = \dot{m}_2 h_2 + \dot{W}_{out}$$

$$\dot{W}_{out} = \dot{m} (h_1 - h_2)$$

State 1

$$\left. \begin{array}{l} P_1 = 1 \text{ MPa} \\ T_1 = 600^\circ \text{C} \end{array} \right\} \begin{array}{l} \text{sup erheated} \\ h_1 = 3698.6 \frac{\text{kJ}}{\text{kg}} \\ s_1 = 8.0311 \frac{\text{kJ}}{\text{kg}\cdot\text{K}} \end{array}$$

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Table of Contents Thermodynamics Example Problems And Solutions

1. Understanding the eBook Thermodynamics Example Problems And Solutions
 - The Rise of Digital Reading Thermodynamics Example Problems And Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Thermodynamics Example Problems And Solutions
 - 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 Thermodynamics Example Problems And Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Thermodynamics Example Problems And Solutions
 - Personalized Recommendations
 - Thermodynamics Example Problems And Solutions User Reviews and Ratings
 - Thermodynamics Example Problems And Solutions and Bestseller Lists

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