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:

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

$$energy\ balance$$

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

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

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

State 1

$$\left.\begin{aligned} P_1 &= 1\,MPa \\ T_1 &= 600^{\circ}C \end{aligned}\right\} \text{superheated}$$

$$h_1 = 3698.6\ \frac{kJ}{kg}$$

$$s_1 = 8.0311\ \frac{kJ}{kg.K}$$

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JS Bruner

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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
    - Thermodynamics Example Problems And Solutions Public Domain eBooks
    - Thermodynamics Example Problems And Solutions eBook Subscription Services
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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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