

Solution

$$r = \frac{V_1}{V_2} = \left(\frac{T_1}{T_2} \right)^{\frac{1}{\gamma-1}} = \left(\frac{646}{323} \right)^{\frac{1}{0.4}} = 5.66 \quad \underline{\underline{\text{Ans}}}$$

$$\begin{aligned} \eta_{\text{Otto}} &= 1 - \frac{1}{r^{\gamma-1}} = 1 - \frac{T_1}{T_2} \\ &= 1 - \frac{323}{646} = 0.5 = 50\% \quad \underline{\underline{\text{Ans}}} \end{aligned}$$

2.3 In an Otto cycle air at 17 °C and 1 bar is compressed adiabatically until the pressure is 15 bar. Heat is added at constant volume until the pressure rises to 40 bar. Calculate the air-standard efficiency, the compression ratio and the mean effective pressure for the cycle. Assume $C_v = 0.717 \text{ kJ/kg K}$ and $R = 8.314 \text{ kJ/kmol K}$.

Solution

Consider the process 1 - 2

$$p_1 V_1^\gamma = p_2 V_2^\gamma$$

$$\begin{aligned} \frac{V_1}{V_2} &= r = \left(\frac{p_2}{p_1} \right)^{\frac{1}{\gamma}} \\ &= \left(\frac{15}{1} \right)^{\frac{1}{1.4}} = 6.91 \end{aligned}$$

$$\begin{aligned} \eta &= 1 - \left(\frac{1}{r} \right)^{\gamma-1} \\ &= 1 - \left(\frac{1}{6.91} \right)^{0.4} = 0.539 = 53.9\% \end{aligned}$$

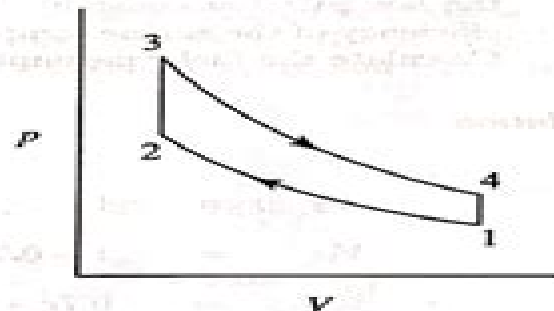
$$T_2 = \frac{p_2 V_2}{p_1 V_1} T_1 = \frac{15}{1} \times \frac{1}{6.91} \times 290 = 629.5 \text{ K}$$

Consider the process 2 - 3

$$T_3 = \frac{p_3 T_2}{p_2} = \frac{40}{15} \times 629.5 = 1678.7$$

$$\begin{aligned} \text{Heat supplied} &= C_v (T_3 - T_2) \\ &= 0.717 \times (1678.7 - 629.5) = 752.3 \text{ kJ/kg} \end{aligned}$$

$$\text{Work done} = \eta \times q_s = 0.539 \times 752.3 = 405.5 \text{ kJ/kg}$$



Otto Cycle Problems And Solutions

M Lipman



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A Practical Treatise on the 'Otto' Cycle Gas Engine William Norris, 1896

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Table of Contents Otto Cycle Problems And Solutions

1. Understanding the eBook Otto Cycle Problems And Solutions
 - The Rise of Digital Reading Otto Cycle Problems And Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Otto Cycle 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 Otto Cycle Problems And Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Otto Cycle Problems And Solutions
 - Personalized Recommendations
 - Otto Cycle Problems And Solutions User Reviews and Ratings
 - Otto Cycle Problems And Solutions and Bestseller Lists
5. Accessing Otto Cycle Problems And Solutions Free and Paid eBooks
 - Otto Cycle Problems And Solutions Public Domain eBooks
 - Otto Cycle Problems And Solutions eBook Subscription Services
 - Otto Cycle Problems And Solutions Budget-Friendly Options
6. Navigating Otto Cycle Problems And Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Otto Cycle Problems And Solutions Compatibility with Devices
 - Otto Cycle Problems And Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Otto Cycle Problems And Solutions
 - Highlighting and Note-Taking Otto Cycle Problems And Solutions
 - Interactive Elements Otto Cycle Problems And Solutions
8. Staying Engaged with Otto Cycle Problems And Solutions

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Otto Cycle Problems And Solutions
9. Balancing eBooks and Physical Books Otto Cycle Problems And Solutions
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Otto Cycle Problems And Solutions
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Otto Cycle Problems And Solutions
- Setting Reading Goals Otto Cycle Problems And Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Otto Cycle Problems And Solutions
- Fact-Checking eBook Content of Otto Cycle 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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