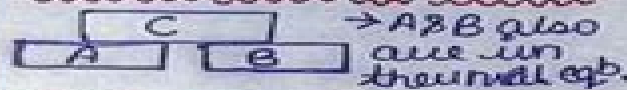


Branch of science with conversion of heat and work.

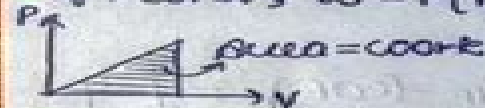
* Zeroth Law of Thermodynamics



* First Law of Thermodynamics

$$\{dQ = dw + \Delta u\}$$

- work done $\Rightarrow dw = \int P dv$
- if P const: $w = P(V_2 - V_1)$



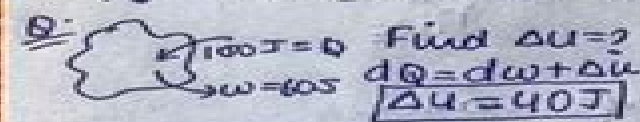
- $\Delta u = \frac{f}{2} n R \Delta T$
- $\{\Delta u = n C_v \Delta T\}$
- $\{\Delta u = \frac{n R \Delta T}{\gamma - 1}\}$ $\frac{f}{2} = \frac{1}{\gamma - 1}$
- $\{\Delta u = \frac{P_2 V_2 - P_1 V_1}{\gamma - 1}\}$

* Sign Conventions

Heat in, work out $\Delta u = \frac{f}{2} n R \Delta T$

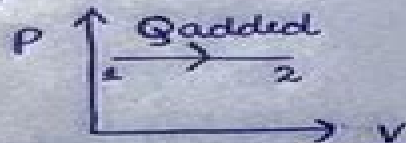
$$T \uparrow \rightarrow \Delta T \uparrow \therefore \Delta u \Rightarrow +ve$$

$$T \downarrow \rightarrow \Delta T (-ve) \therefore \Delta u = -ve$$



$$Q_{out} = -ve \quad Q_{in} = +ve$$

(i) Isoobaric: ($P = C$)
 $PV = nRT \rightarrow V \propto T$
 $V/T = \text{constant}$



HERMODYNAMICS

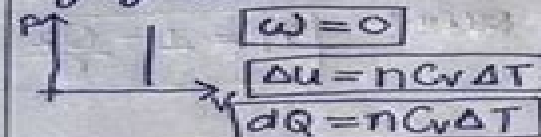
$$w = \int P \cdot dv \Rightarrow w = P(V_2 - V_1)$$

$$\Delta u = n C_v \Delta T \quad \text{for } \Delta u \text{ pure}$$

$$dQ = n C_p \Delta T$$

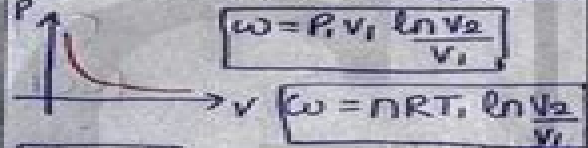
(ii) Isochoric: vol const

$P \propto T \rightarrow P/T = \text{constant}$
 $\rightarrow$ Gay Lussac law.



(iii) Isothermal (Boyle's law)

$PV = \text{constant}$, $xy = \text{const}$



$$\Delta u = 0 \quad dQ = dw$$

(iv) Adiabatic $Q = 0$

$\rightarrow$ Bursting of tyres

$PV^\gamma = \text{const}$ mono = 1.66

dia = 1.4

Poly = 1.33

$dQ = 0$

$dw = -\Delta u$

$dQ = nR(T_1 - T_2)$

$\Delta u = n C_v \Delta T$

$\frac{P_2}{P_1} = \left(\frac{V_1}{V_2}\right)^\gamma$, $\frac{T_2}{T_1} = \left(\frac{P_2}{P_1}\right)^{\frac{\gamma-1}{\gamma}}$

$\frac{T_2}{T_1} = \left(\frac{V_1}{V_2}\right)^{\gamma-1}$

(slope) $\Delta u = \gamma$ (slope)

Isother

Adiabatic

(v) Polytropic:

$PV^n = \text{const}$

$Q \neq 0$

$dQ = dw + \Delta u$

$dQ = nR(T_1 - T_2)$

$n-1$

$\Delta u = \frac{nR \Delta T}{\gamma - 1}$

Polytropic Index

or $\{\Delta u = n C_v \Delta T\}$

$P = \text{const}$ at $n = 0$

$PV = \text{const}$ at $n = 1$

$PV^\gamma = \text{const}$ at $n = \gamma$

$V = \text{const}$ at $n = \infty$

$P = C \rightarrow n = 0$

Iso $\rightarrow n = 1$

Adi $\rightarrow n = \gamma$

vol $\rightarrow n = \infty$

* Cyclic Process:

events:

area enclosed

$\Delta u = \text{Point}$

$w = \text{Path}$

$\Delta u = \text{Path}$

Point and Path:

T_1

T_2

$w_a > w_b > w_c$ (Path)

$\Delta u_a = \Delta u_b = \Delta u_c$ (Point)

$\therefore P_{initial} = P_{final}$

$\Delta u = 0$

$dQ = dw$

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Kathleen Armour



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Metallurgical Thermodynamics Kinetics and Numericals Mr. Sanjeev Pandey, 2024-08-16 Discusses the thermodynamic principles and kinetic factors governing metallurgical reactions along with numerical problem solving for practical applications

Software Engineering Perspectives in Intelligent Systems Radek Silhavy, Petr Silhavy, Zdenka Prokopova, 2020-12-14 This book constitutes the refereed proceedings of the 4th Computational Methods in Systems and Software 2020 CoMeSySo 2020 proceedings Software engineering computer science and artificial intelligence are crucial topics for the research within an intelligent systems problem domain The CoMeSySo 2020 conference is breaking the barriers being held online CoMeSySo 2020 intends to provide an international forum for the discussion of the latest high quality research results

Refrigeration and Air Conditioning S. N. SAPALI, 2009-02-11 This book provides a first course in Refrigeration and Air Conditioning The subject matter has been developed in a logical and coherent manner with neat illustrations and a fairly large number of solved examples and unsolved problems The text developed from the author's teaching experience of many years is suitable for the senior level undergraduate and first year postgraduate students of mechanical engineering automobile engineering as well as chemical engineering The text commences with an introduction to the fundamentals of thermodynamics and a brief treatment of the various methods of refrigeration Then follows the detailed discussion and analysis of air refrigeration systems vapour compression and vapour absorption refrigeration systems with special emphasis on developing sound physical concepts and gaining problem solving skills Refrigerants are exhaustively dealt with in a separate chapter The remainder chapters of the book deal with psychrometry and various processes required for the analysis of air conditioning systems Technical descriptions of compressors evaporators condensers expansion devices and ducts are provided along with design practices for cooling and heating load calculations Finally a brief review of the basic principles and applications of cryogenic gases and air liquefaction systems are given

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Classical Thermodynamics, International Edition Lynn D. Russell, George A. Adebisi, 2006-04-06 Sophomore or junior engineering students will appreciate this in depth analysis of the fundamentals of thermodynamics The text notes common student problem areas such as definition of systems boundary units processes work and heat A review of energy resource consumption shows the importance of energy resources to the economy and emphasizes thermodynamic analysis The systematic approach to solving thermodynamic problems is supported by numerous chapter end problems graded in three levels of difficulty Open ended design problems are included in chapters 10-15 to reflect the increasing emphasis on the need for design in core courses Extensive treatment of second law analyses including energy analysis energy availability helps students understand real systems Explanation of how to maximize energy delivery from chemical reactions presents a solid background in improving the design of reacting systems Accompanying Thermo Props software saves students time in looking up values from tables and help in the analysis of psychrometrics as well as heating refrigeration and air conditioning systems

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1. Understanding the eBook Thermodynamics Notes 12 With Numericals
 - The Rise of Digital Reading Thermodynamics Notes 12 With Numericals
 - Advantages of eBooks Over Traditional Books
2. Identifying Thermodynamics Notes 12 With Numericals
 - 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 Notes 12 With Numericals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Thermodynamics Notes 12 With Numericals
 - Personalized Recommendations
 - Thermodynamics Notes 12 With Numericals User Reviews and Ratings
 - Thermodynamics Notes 12 With Numericals and Bestseller Lists
5. Accessing Thermodynamics Notes 12 With Numericals Free and Paid eBooks
 - Thermodynamics Notes 12 With Numericals Public Domain eBooks
 - Thermodynamics Notes 12 With Numericals eBook Subscription Services

- Thermodynamics Notes 12 With Numericals Budget-Friendly Options
- 6. Navigating Thermodynamics Notes 12 With Numericals eBook Formats
 - ePub, PDF, MOBI, and More
 - Thermodynamics Notes 12 With Numericals Compatibility with Devices
 - Thermodynamics Notes 12 With Numericals Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Thermodynamics Notes 12 With Numericals
 - Highlighting and Note-Taking Thermodynamics Notes 12 With Numericals
 - Interactive Elements Thermodynamics Notes 12 With Numericals
- 8. Staying Engaged with Thermodynamics Notes 12 With Numericals
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Thermodynamics Notes 12 With Numericals
- 9. Balancing eBooks and Physical Books Thermodynamics Notes 12 With Numericals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Thermodynamics Notes 12 With Numericals
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Thermodynamics Notes 12 With Numericals
 - Setting Reading Goals Thermodynamics Notes 12 With Numericals
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Thermodynamics Notes 12 With Numericals
 - Fact-Checking eBook Content of Thermodynamics Notes 12 With Numericals
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

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- Interactive and Gamified eBooks

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