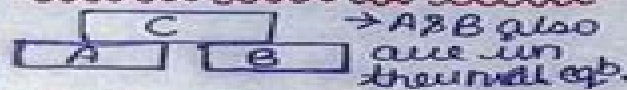


Branch of science with conversion of heat and work.

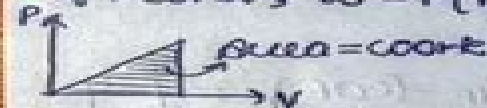
* Zeroth Law of Thermodynamics



* First Law of Thermodynamics

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

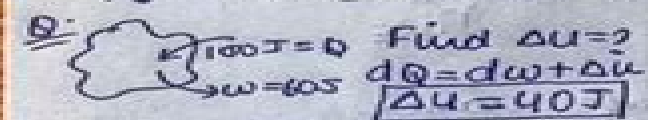
- work done $\Rightarrow dw = \int P dv$
- if P const; $w = P(V_2 - V_1)$



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

* Sign Conventions

- > Heat in, work out
- $\Delta U = \frac{f}{2} n R \Delta T$
- $T \uparrow \rightarrow \Delta T \uparrow \therefore \Delta U \Rightarrow +ve$
- $T \downarrow \rightarrow \Delta T (-ve) \therefore \Delta U = -ve$

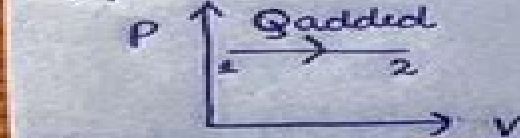


$$Q_{out} = -ve \quad Q_{in} = +ve$$

(i) Isoobaric: (P=C)

$$P V = n R T \rightarrow V \propto T$$

$$\frac{V}{T} = \text{constant}$$



HERMODYNAMICS

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

$$\Delta U = n C_v \Delta T \quad \text{for } \Delta U \text{ process}$$

$$dQ = n C_p \Delta T$$

(ii) Isochoric: vol const

$$P \propto T \rightarrow \frac{P}{T} = \text{constant}$$

$$\rightarrow \text{Gay Lussac law.}$$

$$P \uparrow \rightarrow T \uparrow$$

$$w = 0$$

$$\Delta U = n C_v \Delta T$$

$$dQ = n C_v \Delta T$$

(iii) Isothermal (Boyle's law)

$$P V = \text{constant}, \quad x y = \text{const}$$

$$w = P_1 V_1 \ln \frac{V_2}{V_1}$$

$$w = n R T \ln \frac{V_2}{V_1}$$

$$\Delta U = 0$$

$$dQ = dw$$

(iv) Adiabatic Q=0

$$\rightarrow \text{Breasting of types}$$

$$P V^\gamma = \text{const}$$

$$Q = 0$$

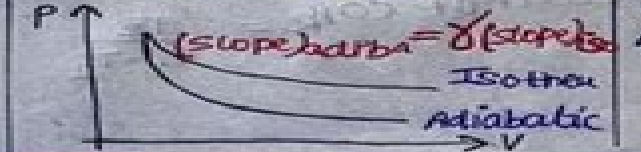
$$dw = -\Delta U$$

$$dw = \frac{n R (T_1 - T_2)}{\gamma - 1}$$

$$\Delta U = n C_v \Delta T$$

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

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



(v) Polytropic:

$$P V^n = \text{const}$$

$$Q \neq 0$$

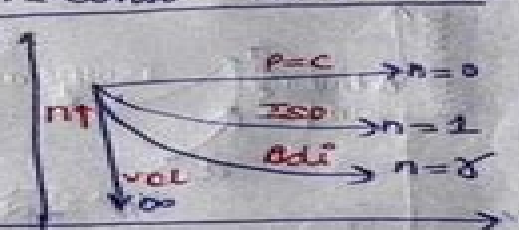
$$dQ = dw + \Delta U$$

$$dw = \frac{n R (T_1 - T_2)}{n - 1}$$

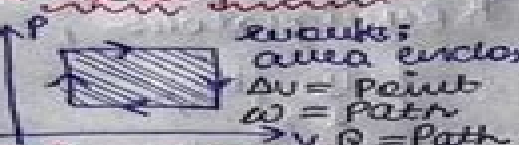
$$\Delta U = \frac{n R \Delta T}{\gamma - 1}$$

Polytropic Index

- $\Delta U = n C_v \Delta T$
- $P = \text{const}$ at $n = 0$
- $P V = \text{const}$ at $n = 1$
- $P V^\gamma = \text{const}$ at $n = \gamma$
- $V = \text{const}$ at $n = \infty$



* Cyclic Process:



events: area enclosed

$\Delta U = \text{Point}$

$w = \text{Path}$

$\Delta U = \text{Path}$

$\Delta U = \text{Path}$

$\Delta U = \text{Path}$

$\Delta U = \text{Path}$

$\Delta U = \text{Path}$

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Marcel A. Müller



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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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exploration of this branch of natural science Spangler was a professor of mechanical engineering at the University of Pennsylvania and regularly lectured on the subject of thermodynamics Notes on Thermodynamics thus originated as a collection of information that Spangler prepared for distribution to his students The purpose of the book is to more rapidly educate students on the theoretical aspect of thermodynamics than could be done using existing textbooks This is a brief work and one that does not waste any space Spangler has packed the book with mathematical formulas and equations used to demonstrate various principals of thermodynamics The title is divided into sections which each highlight a specific aspect of the topic Notes on Thermodynamics is a title that will appeal to those actively involved in the study of the subject matter It is a highly technical work and not one accessible for those without a background in math and science This is not an introductory text but rather one intended to complement a rigorous course of study Notes on Thermodynamics is a dense eighty four page book clearly aimed at the engineer or scientist For those involved in the in depth study of thermodynamics Spangler s work here is of tremendous benefit It is a concise and comprehensive overview of the topic and one that can serve as the perfect study guide for students About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

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Thermodynamics Problem Solver The Editors of REA, Ralph Pike, 2013-01-01 REA's *Thermodynamics Problem Solver* Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides More useful more practical and more informative these study aids are the best review books and textbook companions available They're perfect for undergraduate and graduate studies This highly useful reference provides thorough coverage of pressure work and heat energy entropy first and second laws ideal gas processes vapor refrigeration cycles mixtures and solutions For students in engineering physics and chemistry

Schaum's Outline of Theory and Problems of Thermodynamics for Engineers Merle C. Potter, Craig W. Somerton, 1995 This package develops the analysis of charge carrying systems leading to an understanding of Maxwell's equations Students can experiment with both advanced graphing and numerical techniques Systems requirements are 80386 80486 PC or compatibles Windows 3.1 or higher 3.5 disk drive 4 MB of RAM and 4 MB of disk space

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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