

Revision Notes
Class 11 Physics
Chapter 12 – Thermodynamics

1. THERMODYNAMICS

It deals with the study of interactions between heat and other forms of energy.

Thermodynamic System:

A collection of large numbers of molecules of matter (solid, liquid or gas) that are arranged in a manner such that these possess particular values of pressure, volume and temperature forms a thermodynamic system.

The parameters like pressure, volume, temperature, internal energy, etc., which determine the state or condition of a system are termed thermodynamic state variables.

In thermodynamics, we consider the thermodynamic systems as a whole and learn the interaction of heat and energy during the change of one thermodynamic state to another.

1.1 Thermal Equilibrium

The term 'equilibrium' in thermodynamics refers to the state when all the macroscopic variables expressing the system (P, V, T, mass etc..) do not change with time.

- Two systems when in contact with each other are said to be in thermal equilibrium when their temperatures become the same.
- Zeroth law of thermodynamics states that when the thermodynamics systems A and B are separately in thermal equilibrium with a third thermodynamic system C, then the systems A and B are also in thermal equilibrium with each other.

1.2 Heat, Work and Internal Energy

Internal Energy refers to the energy possessed by any system because of its molecular kinetic energy and molecular potential energy. Both these energies are considered with respect to center of mass frame.

Internal energy is dependent entirely on the state and thus, it is a state variable. In the case of real gases, internal energy is only by virtue of their molecular motion whereas for ideal gases, it is mathematically given by

$$U = \frac{nfRT}{2}$$

where,

n is the number of moles

f is the degree of freedom

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personal and in the content of the scientific communications exchanged with other workers such as Joule and Clausius Secondly there is Kelvin s impact on the wider field of science such as thermoelectricity and geology determination of the age of the earth Of late a number of studies and initiatives including the Centenary celebrations of Kelvin s death and exhibits such as that of the Revolutionary Scientist in the Hunterian Museum Glasgow have been undertaken aiding the redefinition of Kelvin s greatness and achievements The book also raises awareness to improve our approach to the teaching of elementary thermodynamics by attempting to empathise with Kelvin s perspective It is completed by a full biography overviews of various monuments to his memory and short Stories in Pictures on the Atlantic cable Maxwell s Demon the universities associated with the development of thermodynamics and the Royal Society of Edinburgh Scientists and engineers with an interest in thermodynamics and anyone interested in the work of Lord Kelvin will find benefit in Kelvin Thermodynamics and the Natural World *Physics* Peter Lindenfeld,Suzanne White Brahmia,2011-03-02 Today s physics textbooks have become encyclopedic offering students dry discussions rote formulas and exercises with little relation to the real world *Physics The First Science* takes a different approach by offering uniquely accessible student friendly explanations historical and philosophical perspectives and mathematics in easy to comprehend dialogue It emphasizes the unity of physics and its place as the basis for all science Examples and worked solutions are scattered throughout the narrative to help increase understanding Students are tested and challenged at the end of each chapter with questions ranging from a guided review designed to mirror the examples to problems reasoning skill building exercises that encourage students to analyze unfamiliar situations and interactive simulations developed at the University of Colorado With their experience instructing both students and teachers of physics for decades Peter Lindenfeld and Suzanne White Brahmia have developed an algebra based physics book with features to help readers see the physics in their lives Students will welcome the engaging style condensed format and economical price **Chemical Thermodynamics** Victor CM Freestone,2025-06-13 Thermodynamics can never be made easy but with the right approach and a consistent use of scientific terms it can be made less opaque and it can give a person who is prepared to try an insight into how science explains why things happen the way they do The approach adopted in this book will give readers a better understanding of how science works together with its limitations Unfortunately thermodynamics or at least some parts of it is a subject which apart from quantum mechanics probably causes most confusion and bewilderment amongst scientists The majority of students do not understand or get thermodynamics and it is considered a hard or difficult subject There are multiple reasons for this There is of course mathematics and many thermodynamic texts appear to be lists upon lists of differential equations Another reason is that thermodynamics is as often as not poorly taught by teachers lecturers who themselves do not understand or appreciate or have any interest in the subject often all three This results not only in a lack of scientific rigorousness in the teaching of the subject with the resulting confusion and sometimes teachers lecturers and authors just get it plain wrong this occurs surprisingly often However it

need not be like this and although mathematics including calculus is required it can be kept to a relatively elementary level in order to obtain an understanding of this most important of subjects No one can pretend that the subject is easy but it can be made more accessible by a rigorous definition of terms and concepts and ensuring that a consistency of use of these definitions is maintained Highlighting the benefits of thermodynamics in practical science the text gives an intuitive grasp of the major concepts of thermodynamics such as energy and entropy Provides a new pedagogic approach to understanding and teaching chemical thermodynamics Starting with a set of basic simple assumptions about what constitutes topics such as an ideal gas theories are developed in a clear concise and accessible manner that will either answer or at the very least give an insight into a surprising range of scientific phenomena including energy heat temperature properties of gases time and quantum theory Assumes that the reader has essentially no knowledge of the subject Mathematics including calculus is kept to a relatively elementary level in order to obtain an understanding of this most important of subjects Provides the reader with a better understanding of how science works together with its limitations

Physics Briefs ,1990 Universal Themes of Bose-Einstein Condensation Nick P. Proukakis,David W. Snoke,Peter B. Littlewood,2017-04-27 Covering general theoretical concepts and the research to date this book demonstrates that Bose Einstein condensation is a truly universal phenomenon

Cellular Automata And Complexity Stephen Wolfram,2018-03-08 Are mathematical equations the best way to model nature For many years it had been assumed that they were But in the early 1980s Stephen Wolfram made the radical proposal that one should instead build models that are based directly on simple computer programs Wolfram made a detailed study of a class of such models known as cellular automata and discovered a remarkable fact that even when the underlying rules are very simple the behaviour they produce can be highly complex and can mimic many features of what we see in nature And based on this result Wolfram began a program of research to develop what he called A Science of Complexity The results of Wolfram s work found many applications from the so called Wolfram Classification central to fields such as artificial life to new ideas about cryptography and fluid dynamics This book is a collection of Wolfram s original papers on cellular automata and complexity Some of these papers are widely known in the scientific community others have never been published before Together the papers provide a highly readable account of what has become a major new field of science with important implications for physics biology economics computer science and many other areas

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