

# Physics Notes Class 11 CHAPTER 12

## THERMODYNAMICS

The branch dealing with measurement of temperature is called thermometry and the devices used to measure temperature are called thermometers.

### Heat

Heat is a form of energy called thermal energy which flows from a higher temperature body to a lower temperature body when they are placed in contact.

Heat or thermal energy of a body is the sum of kinetic energies of all its constituent particles, on account of translational, vibrational and rotational motion.

The SI unit of heat energy is joule (J).

The practical unit of heat energy is calorie.

$$1 \text{ cal} = 4.18 \text{ J}$$

1 calorie is the quantity of heat required to raise the temperature of 1 g of water by 1°C.

Mechanical energy or work (W) can be converted into heat (Q) by  $1 \text{ W} = JQ$

where  $J$  = Joule's mechanical equivalent of heat.

$J$  is a conversion factor (not a physical quantity) and its value is 4.186 J/cal.

### Temperature

Temperature of a body is the degree of hotness or coldness of the body. A device which is used to measure the temperature, is called a thermometer.

Highest possible temperature achieved in laboratory is about 10<sup>8</sup> while lowest possible temperature attained is 10<sup>-8</sup> K.

Branch of Physics dealing with production and measurement temperature close to 0 K is known as cryogenics, while that dealing with the measurement of very high temperature is called pyrometry. Temperature of the core of the sun is 10<sup>7</sup> K while that of its surface 6000 K.

NTP or STP implies 273.15 K (0°C = 32°F).

### Different Scale of Temperature

# Physics Notes Class 11 Chapter 12 Thermodynamics

**D Kirk**



## **Physics Notes Class 11 Chapter 12 Thermodynamics:**

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**Kelvin, Thermodynamics and the Natural World** M.W. Collins,R.C. Dougal,C. Koenig,I. Ruddock, Strathclyde University, UK,2015-12-14 This volume looks afresh at the life and works of Lord Kelvin including his standing and relationships with Charles Darwin T S Huxley and the X club thereby throwing new light on the nineteenth century conflict between the British energy and biology specialists It focuses on two principal issues Firstly there is the contribution made by Kelvin to the formulation of the Laws of Thermodynamics

both 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 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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Physics Notes Class 11 Chapter 12 Thermodynamics : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Physics Notes Class 11 Chapter 12 Thermodynamics : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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