

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

Physics Notes Class 11 Chapter 12 Thermodynamics

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Physics Notes Class 11 Chapter 12 Thermodynamics:

THERMAL PHYSICS, M SPRACKLING, 1991-09-01 A large portion of this straightforward introductory text is devoted to the classical equilibrium thermodynamics of simple systems Presentation of the fundamentals is balanced with a discussion of applications showing the level of understanding of the behavior of matter that can be achieved by a macroscopic approach Worked examples plus a selection of problems and answers provide an easy way to monitor comprehension from chapter to chapter

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

Modern Thermodynamics Dilip Kondepudi, Ilya Prigogine, 2014-11-05 Modern Thermodynamics From Heat Engines to Dissipative Structures Second Edition presents a comprehensive introduction to 20th century thermodynamics that can be applied to both equilibrium and non equilibrium systems unifying what was traditionally divided into thermodynamics and kinetics into one theory of irreversible processes This comprehensive text suitable for introductory as well as advanced courses on thermodynamics has been widely used by chemists physicists engineers and geologists Fully revised and expanded this new edition includes the following updates and features Includes a completely new chapter on Principles of Statistical Thermodynamics Presents new material on solar and wind energy flows and energy flows of interest to engineering Covers new material on self organization in non equilibrium systems and the thermodynamics of small systems Highlights a wide range of applications relevant to students across physical sciences and engineering courses Introduces students to computational methods using updated Mathematica codes Includes problem sets to help the reader understand and apply the principles introduced throughout the text Solutions to exercises and supplementary lecture material provided online at [http sites google com site modernthermodynamics](http://sites.google.com/site/modernthermodynamics) Modern

Thermodynamics From Heat Engines to Dissipative Structures Second Edition is an essential resource for undergraduate and graduate students taking a course in thermodynamics **Physics of Black Holes** I. Novikov, V. Frolov, 2013-03-09 One of the most exciting predictions of Einstein's theory of gravitation is that there may exist black holes putative objects whose gravitational fields are so strong that no physical bodies and signals can break free of their pull and escape Even though a completely reliable discovery of a black hole has not yet been made several objects among those scrutinized by astrophysicists will very likely be conformed as black holes The proof that they do exist and an analysis of their properties would have a significance going far beyond astrophysics Indeed what is involved is not just the discovery of yet another even if extremely remarkable astrophysical object but a test of the correctness of our understanding the properties of space and time in extremely strong gravitational fields Theoretical research into the properties of black holes and into the possible corollaries of the hypothesis that they exist has been carried out with special vigor since the beginning of the 1970s In addition to those specific features of black holes that are important for the interpretation of their possible astrophysical manifestations the theory has revealed a number of unexpected characteristics of physical interactions involving black holes By now a fairly detailed understanding has been achieved of the properties of the black holes their possible astrophysical manifestations and the specifics of the various physical processes involved Furthermore profound links were found between black hole theory and such seemingly very distant fields as thermodynamics information theory and quantum theory

Continuum Thermodynamics and Constitutive Theory Christina Papenfuß, 2020-05-16 This book presents different thermodynamic approaches in the area of constitutive theory thermodynamics of irreversible processes rational thermodynamics and extended thermodynamics These different approaches are analyzed with respect to their presuppositions as well as to their results and each method is applied to several important examples In many cases these examples are archetypes for numerous technologically important materials i.e. complex materials having an internal structure Some of the examples dealt with in this book are liquid crystals colloid suspensions and fiber suspensions The book well serves students and researchers who have basic knowledge in continuum mechanics and thermodynamics It provides a systematic overview of the vast field of thermodynamic constitutive theory beginning from a historical perspective and concluding with outstanding questions in recent research **Lazare and Sadi Carnot** Charles Coulston Gillispie, Raffaele Pisano, 2014-02-03 Lazare Carnot was the unique example in the history of science of someone who inadvertently owed the scientific recognition he eventually achieved to earlier political prominence He and his son Sadi produced work that derived from their training as engineering and went largely unnoticed by physicists for a generation or more even though their respective work introduced concepts that proved fundamental when taken up later by other hands There was moreover a filial as well as substantive relation between the work of father and son Sadi applied to the functioning of heat engines the analysis that his father had developed in his study of the operation of ordinary machines Specifically Sadi's idea of a

reversible process originated in the use his father made of geometric motions in the analysis of machines in general This unique book shows how the two Carnots influenced each other in their work in the fields of mechanics and thermodynamics and how future generations of scientists have further benefited from their work The technological process on Offshore Drilling Platforms explained step by step Petrogav International Oil & Gas Training Center,2020-07-02 This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry As a BONUS this eBook contains web addresses to 305 video movies for a better understanding of the technological process and 193 web addresses to recruitment companies where you may apply for a job **Applied Mechanics Reviews** ,1971 Job interview questions and answers for hiring on Onshore Oil and Gas Fields Petrogav International, Petrogav International provides courses for participants that intend to work on onshore drilling and production platforms Training courses are taught by professionals from the oil and gas industry with current knowledge and years of field experience The participants will get all the necessary competencies to work on the onshore drilling rigs and on the onshore oil and gas rigs It is intended also for non drilling and non production personnel who work in drilling exploration and production industry This includes logistics personnel accounting administrative and support staff environmental professionals etc This course provides a non technical overview of the phases operations and terminology used on onshore oil and gas rigs It is intended also for non production personnel who work in the onshore drilling exploration and production industry This includes logistics personnel accounting administrative and support staff environmental professionals etc No prior experience or knowledge of production operations is required This course will provide participants a better understanding of the issues faced in all aspects of drilling operations with a particular focus on the unique aspects of offshore operations *Transport Phenomena in Micro- and Nanoscale Functional Materials and Devices* Joao B. Sousa,Joao O. Ventura,Andre Pereira,2021-03-23 Transport Phenomena in Micro and Nanoscale Functional Materials and Devices offers a pragmatic view on transport phenomena for micro and nanoscale materials and devices both as a research tool and as a means to implant new functions in materials Chapters emphasize transport properties TP as a research tool at the micro nano level and give an experimental view on underlying techniques The relevance of TP is highlighted through the interplay between a micro nanocarrier s characteristics and media characteristics long short range order and disorder excitations couplings and in energy conversions Later sections contain case studies on the role of transport properties in functional nanomaterials This includes transport in thin films and nanostructures from nanogranular films to graphene and 2D semiconductors and spintronics and from read heads MRAMs and sensors to nano oscillators and energy conversion from figures of merit micro coolers and micro heaters to

spin caloritronics Presents a pragmatic description of electrical transport phenomena in micro and nanoscale materials and devices from an experimental viewpoint Provides an in depth overview of the experimental techniques available to measure transport phenomena in micro and nanoscale materials Features case studies to illustrate how each technique works Highlights emerging areas of interest in micro and nanomaterial transport phenomena including spintronics 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

Applied Thermodynamics of Fluids Anthony R H Goodwin, Jan Sengers, Cor J Peters, 2010-11-01 Published under the auspices of both IUPAC and its affiliated body the International Association of Chemical Thermodynamics IACT this book will serve as a guide to scientists or technicians who use equations of state for fluids Concentrating on the application of theory the practical use of each type of equation is discussed and the strengths and weaknesses of each are addressed It includes material on the equations of state for chemically reacting and non equilibrium fluids which have undergone significant developments and brings up to date the equations of state for fluids and fluid mixtures Applied Thermodynamics of Fluids addresses the needs of practitioners within academia government and industry by assembling an international team of distinguished experts to provide each chapter The topics presented in the book are important to the energy business particularly the hydrocarbon economy and the development of new power sources and are also significant for the application of liquid crystals and ionic liquids to commercial products This reference will be useful for post graduate researchers in the fields of chemical engineering mechanical engineering chemistry and physics **The technological process on Offshore**

Drilling Platforms Petrogav International Oil & Gas Training Center, 2020-07-02 This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry The job interview is probably the most important step you will take in your job search journey Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry As a BONUS this eBook contains

web addresses to 303 video movies for a better understanding of the technological process and 205 web addresses to recruitment companies where you may apply for a job **Offshore Drilling Platforms JOB INTERVIEW** Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 273 questions and answers for job interview and as a BONUS 205 web addresses to recruitment companies where you may apply for a job This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **Questions and answers for job interview Offshore Drillings Rigs** Petrogav International Oil & Gas Training Center, The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 270 questions and answers for job interview and as a BONUS 287 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **Job interview questions and answers for employment on Offshore Oil & Gas Platforms** Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 290 questions and answers for job interview and as a BONUS web addresses to 293 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **Quantum Measurement** Paul Busch,Pekka Lahti,Juha-Pekka Pellonpää,Kari Ylinen,2016-08-23 This is a book about the Hilbert space formulation of quantum mechanics and its measurement theory It contains a synopsis of what became of the Mathematical Foundations of Quantum Mechanics since von Neumann s classic treatise with this title Fundamental non classical features of quantum mechanics indeterminacy and incompatibility of observables unavoidable measurement disturbance entanglement nonlocality are explicated and analysed using the tools of operational quantum theory The book is divided into four parts 1 Mathematics provides a systematic exposition of the Hilbert space and operator theoretic tools and relevant

measure and integration theory leading to the Naimark and Stinespring dilation theorems 2 Elements develops the basic concepts of quantum mechanics and measurement theory with a focus on the notion of approximate joint measurability 3 Realisations offers in depth studies of the fundamental observables of quantum mechanics and some of their measurement implementations and 4 Foundations discusses a selection of foundational topics quantum classical contrast Bell nonlocality measurement limitations measurement problem operational axioms from a measurement theoretic perspective The book is addressed to physicists mathematicians and philosophers of physics with an interest in the mathematical and conceptual foundations of quantum physics specifically from the perspective of measurement theory *Questions and answers for job interview Offshore Drilling Platforms* Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 271 questions and answers for job interview and as a BONUS 290 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **South African Journal of Physics** ,1982 Quinta Essentia - Part 3 (2nd Ed.) Riccardo Storti,2008-06-30 A Practical Guide to Space Time Engineering Particle physics is a rapidly expanding and highly dynamic sphere of knowledge supporting a landscape of constantly changing hues Experimental boundaries are being shifted with exciting reductions in uncertainty at a staggering pace This text develops the Electro Gravi Magnetic EGM construct to define relationships between the distributions of mass energy over space time of fundamental particles The correlation of EGM calculations for mass size to experimental evidence is astonishing to at least four orders of magnitude greater that can be physically measured Most of the contents herein have been peer reviewed published in scientific literature For particle enthusiasts this text is a must

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