

PHYSICAL: Kinetic Molecular Theory

Learning Objectives

- At molecular-level, understand how the state properties (pressure, volume, temperature, etc.) of a gas are related to the motion of the gas's constituent particles.
- Understand how temperature affects molecular motion.
- Understand how temperature affects the speed of sound in a gas.

Module 1: Representation of States in Different Phases

The following figure illustrates representative particle-level phase behavior in a closed system.



Figure 1: Representative states of matter at different phases of matter.

Understanding the behavior of particles in different phases is essential for understanding the properties of matter. This module will explore the behavior of particles in different phases of matter.

Key Concepts

1. Matter can be in three different states of matter: solid, liquid, and gas. Matter can change from one state to another, a process called phase change. The temperature of a substance determines its state of matter. For example, water is liquid at room temperature, but it is solid at low temperatures and gas at high temperatures.

Figure 2: Temperature and the states of matter.

	Solid	Liquid	Gas
Particle arrangement	Particles are packed closely together in a fixed, ordered arrangement. The particles are vibrating in place.	Particles are packed closely together in a disordered arrangement. The particles are moving around and vibrating in place.	Particles are spread far apart in a disordered arrangement. The particles are moving around and vibrating in place.
Particle motion	Particles are vibrating in place. They are not moving around.	Particles are moving around and vibrating in place. They are not moving around.	Particles are moving around and vibrating in place. They are not moving around.

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Applications of the Kinetic Theory to Gases, Vapors, Pure Liquids, and the Theory of Solutions William Pingry Boynton, 1904 Kinetic Theory S. G. Brush, 2016-10-27 Kinetic Theory Volume 2 Irreversible Processes compiles the fundamental papers on the kinetic theory of gases This book comprises the two papers by Maxwell and Boltzmann in which the basic equations for transport processes in gases are formulated as well as the first derivation of Boltzmann's H theorem and problem of irreversibility Other topics include the dynamical theory of gases kinetic theory of the dissipation of energy three body problem and the equations of dynamics theorem of dynamics and the mechanical theory of heat and mechanical explanation of irreversible processes This volume is beneficial to physics students in the advanced undergraduate or postgraduate level **Kinetic Molecular Theory** Charles Proteus Steinmetz, American Electrochemical Society. Meeting, 1908* **Molecules and the Molecular Theory of Matter** Allan Douglas Risteen, 1895 **Kinetic Theory** Stephen G. Brush, 2013-10-22 Kinetic Theory Volume I The Nature of Gases and of Heat covers the developments in area of kinetic theory statistical mechanics and thermodynamics This book is organized into two parts encompassing 11 chapters The book starts with an overview of the history of atomism the caloric theory the conservation of energy the virial theorem and atomic magnitudes The second part deals first with the delineation of observed phenomena of motions through the repulsion theory This part also considers other forces of nature including fire and heat with emphasis on the nature of motion of these forces and their conservation This book is intended for physicists and physics teachers and students *Foundations of the Molecular Theory* John Dalton, Amedeo Avogadro, Joseph Louis Gay-Lussac, 1911 **The Molecular Theory of Gases and Liquids** Joseph O. Hirschfelder, Charles F. Curtiss, R. Byron Bird, 1964-01-15 An essential cross disciplinary reference for molecular interactions Molecular Theory of Gases and Liquids offers a rigorous comprehensive treatment of molecular characteristics and behaviors in the gaseous and fluid states A unique cross disciplinary approach provides useful insight for students of chemistry chemical engineering fluid dynamics and a variety of related fields with thorough derivations and in depth explanations throughout Appropriate for graduate students and working scientists alike this book details advanced concepts without sacrificing depth of coverage or technical detail Kinetic Theory, 1921 *Kinetic Theory* J.M Pendlebury, 1985-09-01 The theory of the motions of atoms and molecules in a fluid provides the key to understanding thermodynamics yet many students find difficulty in evaluating and using the basic expressions of kinetic theory This book is designed to lead such students through the fundamental assumptions underlying the theory and to build up a clear physical understanding of the distribution of molecular speeds within a gas The bulk of the text outlines the relationship between molecular motions and the macroscopic properties of gases including the equation of state for a perfect gas and for a van der Waals gas and derives a variety of transport coefficients and thermodynamics relations **Kinetic Theory of Bimolecular Chemical Reaction, Diffusive Drag, and Other Processes in a Gas Mixture** Richard A. Hord, 1967 For two gas species

with a temperature difference and a bulk velocity difference neither of which is necessarily small in magnitude the kinetic theory of gases has been used to derive explicit expressions for the collision frequency diffusive drag force molecular translational energy transfer rate and the bimolecular chemical reaction frequency The derivations which are based upon hypothesized mutual collision diameters activation energies and steric factors are of interest in connection with theoretical studies of low pressure gas mixtures with large departures from equilibrium A binary temperature concept is introduced as an aid in condensing and interpreting the expressions derived from the kinetic theory The expression derived for the diffusive drag force is used to give a more definite form to the equations of motion of the individual species in a mixture of several interdiffusing gases

Kinetic Processes in Gases and Plasmas A Hochstim, 2012-12-02 Kinetic Processes in Gases and Plasmas provides a survey of studies on transport and chemical kinetic processes in high temperature gases and plasmas The book is concerned with conditions produced by the interaction of an object with the atmosphere at hypersonic velocities The text also provides a foundation for the flow field equations which include chemical reactions and other transport processes and to present in some detail the microscopic considerations underlying these calculations Chapters are devoted to the discussion of topics such as the molecular theory of transport equations transport processes in ionized gases and inelastic energy transfer processes and chemical kinetics Aerospace engineers physicists chemists and astrophysicists will find the book a good reference material

An Introduction to Molecular Kinetic Theory Joel Henry Hildebrand, 1963

Foundations of the Molecular Theory, 1893

Foundations of Molecular Theory, Comprising Papers and Extracts

John Dalton, Joseph Louis Gay-Lussac, Amedeo Avogadro, 1961

Applications of the Kinetic Theory William Pingry

Boynton, 2015-06-25 Excerpt from Applications of the Kinetic Theory To Gases Vapors Pure Liquids and the Theory of Solutions This book presupposes a moderate acquaintance with the fundamentals of physics and chemistry and a mathematical equipment involving familiarity with the differential calculus and at least the notation of the integral calculus It embodies a course of lectures given at the University of California during the academic years 1898 1901 but includes for the sake of greater completeness of treatment some matter not given in the lectures For detailed information regarding many of the topics mentioned as for instance osmotic pressure and electrolysis and for a statement of the experimental basis for the theories presented the reader is referred to the standard texts which treat of these topics in extenso The intent in this volume is not so much to discuss these facts and theories by themselves as to present their possible or probable relations to each other in the light of the kinetic theory 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 Foundations of the Molecular Theory John Dalton, Amedeo Avogadro, 2017-07-25 From the Preface THE papers here reprinted in chronological order serve to exhibit the historical development of the idea of a connection existing between the number of particles in different gases and the volume they occupy It will be seen that Dalton from the first entertains the notion that equal volumes of different gases may contain the same number of ultimate particles at equal temperature and pressure but that he is legitimately forced to reject this assumption conceiving no distinction between the atom and the molecule of an element Gay Lussac's important experimental work on the combining volumes of gases then shows the necessity of a simple relation between the ultimate particles of gases and their volumes although he does not point this out in his paper Dalton however perceives the necessity and characteristically concludes by doubting the accuracy of Gay Lussac's experiments Avogadro finally accepts both Dalton's theory and Gay Lussac's data and teaches how to reconcile them by distinguishing between the atom and the molecule of an elementary gas It has not been thought necessary to reprint the letter of Ampere to Berthollet Annales de Chimie 90 43 86 1814 since that paper contains no advance on the views of Avogadro published three years earlier its author simply drawing the same conclusions from the same premises The English version of the French originals will probably be found more faithful than elegant especially so in the case of Avogadro's paper where the French is always clumsy and occasionally obscure **Molecules and the Molecular Theory of Matter** A. D. Risteen, 2015-06-15 Excerpt from Molecules and the Molecular Theory of Matter In the multiplication of popular books on scientific subjects the molecular theory of matter appears to have been strangely neglected None of the works available to American readers pretend to give a complete connected account of what is known of the constitution of matter and the student who wishes to learn the present state of the molecular theory has to seek his information in the occasional articles that are scattered through the scientific journals Dr Watson's Kinetic Theory of Gases a new edition of which has been recently published is far too difficult for the undergraduates in our scientific schools and colleges J. Clausius B. Kinetische Theorie der Gase 1889 91 has not yet been translated nor has Meyer's Kinetische Theorie der Gase so far as I am aware Meyer's book is also out of print at present although a new edition is in preparation Lord Kelvin's delightful lecture on The Size of Atoms should be read by all students of physics and it is now readily available in the first volume of his Popular Lectures and Addresses Crookes's classical papers on radiant matter should also be read they are in the Proceedings of the Royal Society beginning with the year 1874 The present volume is an attempt to elucidate the elements of the molecular theory of matter as it is held to day It is based on a lecture delivered on the 12th of last February before the Washburn Engineering Society of the Worcester Polytechnic Institute In preparing the manuscript for the printer a considerable number of alterations have been made and much new material has been added though the form of presentation has been preserved 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

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Foundations of the Molecular Theory ,1899

The Molecular Theory of Solutions Ilya Prigogine,1957

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