

PHYSICAL: Kinetic Molecular Theory

Learning Objectives

- At standard atmospheric conditions, all gases have approximately the same kinetic energy, but are made of different molecules and are made up of different numbers of particles. (The kinetic molecular theory is based on the assumption that all particles have the same average kinetic energy.)
- At standard atmospheric conditions, gases expand to fill the volume of their container.

Model 1: Representation of Gases in Different Phases

The following figure illustrates the representation of particles in three different phases of matter.



Figure 1: Representations of particles in different phases of matter

Model 1 represents the particles in different phases of matter. The particles in the gas phase are widely spaced and move in all directions. The particles in the liquid phase are closely packed and move in all directions. The particles in the crystalline solid phase are closely packed and move in all directions.

Key Questions

1. Which one of the three representations of particles best represents the gas phase? Which one of the three representations of particles best represents the liquid phase? Which one of the three representations of particles best represents the crystalline solid phase? Justify your answers.

Table 1: Representations of particles in different phases of matter

	PHASE 1	PHASE 2	PHASE 3
Which one of the three representations of particles best represents the gas phase?	Phase 1 is the best representation of the gas phase because the particles are widely spaced and move in all directions.	Phase 2 is the best representation of the gas phase because the particles are widely spaced and move in all directions.	Phase 3 is the best representation of the gas phase because the particles are widely spaced and move in all directions.
Which one of the three representations of particles best represents the liquid phase?	Phase 1 is the best representation of the liquid phase because the particles are closely packed and move in all directions.	Phase 2 is the best representation of the liquid phase because the particles are closely packed and move in all directions.	Phase 3 is the best representation of the liquid phase because the particles are closely packed and move in all directions.
Which one of the three representations of particles best represents the crystalline solid phase?	Phase 1 is the best representation of the crystalline solid phase because the particles are closely packed and move in all directions.	Phase 2 is the best representation of the crystalline solid phase because the particles are closely packed and move in all directions.	Phase 3 is the best representation of the crystalline solid phase because the particles are closely packed and move in all directions.

Answers Kinetic Molecular Theory Pogil

William Pingry Boynton



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Chemical Pedagogy Keith S Taber, 2024-12-20 How should chemistry be taught in schools colleges and universities Chemical Pedagogy discusses teaching approaches and techniques the reasoning behind them and the evidence for their effectiveness The book surveys a wide range of different pedagogic strategies and tactics that have been recommended to better engage learners and provide more effective chemistry teaching These accounts are supported by an initial introduction to some key ideas and debates about pedagogy the science of teaching Chemical Pedagogy discusses how teaching innovations can be tested to inform research based practice Through this book the author explores the challenges of carrying out valid experimental studies in education and the impediments to generalising study results to diverse teaching and learning contexts As a result the author highlights both the need to read published studies critically and the value of teachers and lecturers testing out recommended innovations in their own classrooms Chemical Pedagogy introduces core principles from research into human cognition and learning to provide a theoretical perspective on how to best teach for engagement and understanding An examination of some of the more contentious debates about pedagogy leads to the advice to seek optimally guided instruction which balances the challenge offered to learners with the level of support provided This provides a framework for discussing a wide range of teaching approaches and techniques that have been recommended to those teaching chemistry across educational levels including both those intended to replace teaching from the front and others that can be built into traditional lecture courses to enhance the learning experience **Applications of the Kinetic Theory to Gases, Vapors, Pure Liquids, and the Theory of Solutions** William Pingry Boynton, 1904 **Molecules and the Molecular Theory of Matter** Allan Douglas Risteen, 1895 *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** 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 *Kinetic Molecular Theory* Charles Proteus Steinmetz, American

Electrochemical Society. Meeting, 1908*

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

Irreversible Processes Stephen G. Brush, 2013-10-22

Kinetic Theory Volume 2 Irreversible Processes deals with the kinetic theory of gases and the irreversible processes they undergo It includes the two papers by James Clerk Maxwell and Ludwig Boltzmann in which the basic equations for transport processes in gases are formulated together with the first derivation of Boltzmann's H theorem and a discussion of this theorem along with the problem of irreversibility Comprised of 10 chapters this volume begins with an introduction to the fundamental nature of heat and of gases along with Boltzmann's work on the kinetic theory of gases and statistical mechanics Energy dissipation the statistical nature of the second law of thermodynamics and the eternal return and the recurrence paradox are also considered The first chapter examines the dynamical theory of gases and its application to the explanation of various properties of gases the known chemical relation between the density of a gas and its equivalent weight commonly called the Law of Equivalent Volumes and the diffusion of one gas through another Subsequent chapters focus on the thermal equilibrium of gas molecules the three body problem and the equations of dynamics the mechanical theory of heat and the relation of a general mechanical theorem to the second law of thermodynamics A mechanical explanation of irreversible processes is also offered This book will be useful for students of physics at the advanced undergraduate or beginning postgraduate level

MOLECULES AND THE MOLECULAR THEORY OF MATTER A. D. RISTEEN, 2018

Kinetic Theory

, 19?? **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 Gases and Plasmas PPJM Schram,2012-12-06 Kinetic theory is the link between the non equilibrium statistical mechanics of many particle systems and macroscopic or phenomenological physics Therefore much attention is paid in this book both to the derivation of kinetic equations with their limitations and generalizations on the one hand and to the use of kinetic theory for the description of physical phenomena and the calculation of transport coefficients on the other hand The book is meant for researchers in the field graduate students and advanced undergraduate students At the end of each chapter a section of exercises is added not only for the purpose of providing the reader with the opportunity to test his understanding of the theory and his ability to apply it but also to complete the chapter with relevant additions and examples that otherwise would have overburdened the main text of the preceding sections The author is indebted to the physicists who taught him Statistical Mechanics Kinetic Theory Plasma Physics and Fluid Mechanics I gratefully acknowledge the fact that much of the inspiration without which this book would not have been possible originated from what I learned from several outstanding teachers In particular I want to mention the late Prof dr H C Brinkman who directed my first steps in the field of theoretical plasma physics my thesis advisor Prof dr N G Van Kampen and Prof dr A N Kaufman whose course on Non Equilibrium Statistical Mechanics in Berkeley I remember with delight **Molecules and the Molecular Theory of Matter (Classic Reprint)** A. D. Risteen,2017-09-12 Excerpt from Molecules and the Molecular Theory of Matter Throughout this volume I have considered molecules in their physical aspect There are numerous excellent works that discuss the chemical aspect of the molecular theory satisfactorily of which the following may be particularly recommended Meyer s Modern Theories of Chemistry Rem sen s Theoretical Chemistry Ostwald s Outlines of General Chemistry and Mendeleieff s Principles of Chemistry 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 **Kinetic Theory** S. G. Brush,1948 Introduction to Kinetic Theory Toyoki Koga,1970-04 *Molecular Theory of Gases and Liquids* Joseph Oakland Hirschfelder,2003-01 Molecules and the Molecular Theory of Matter Allan Douglas Risteen,2016-05-21 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact

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The Kinetic Theory Half-elective
Alasdair John Hey, 1994-01-01 *Irreversible Processes* Stephen G. Brush, 1966

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