

# Chapter 12

## Kinetic Theory

### BEHAVIOUR OF GASES

**Ideal gas :** In an ideal gas, we assume that molecules are point masses and there is no mutual attraction between them. The ideal gas obeys following laws :

- (i) **Boyle's law :** According to Boyle's law for a given mass of ideal gas, the pressure of a ideal gas is inversely proportional to the volume at constant temperature

$$\text{i.e., } P \propto \frac{1}{V} \Rightarrow PV = \text{constant}$$

- (ii) **Charles's law :** For a given mass, the volume of a ideal gas is proportional to temperature at a constant pressure

$$\text{i.e., } V \propto T \Rightarrow \frac{V}{T} = \text{constant}$$

- (iii) **Gay-Lussac's law :** For a given mass of ideal gas, the pressure is proportional to temperature at constant volume

$$\text{i.e., } P \propto T \Rightarrow \frac{P}{T} = \text{constant}$$

- (iv) **Avogadro's law :** According to Avogadro's law, the number of molecules of all gases are same at same temperature, pressure and volume

$$\text{i.e., } N_{A_1} = N_{A_2} \text{ for same } P, V \text{ and } T.$$

The value of Avogadro number is  $6.02 \times 10^{23}$  molecules.

- (v) **Graham's law :**

- (a) At constant temperature and pressure, the rms speed of diffusion of two gases is inversely proportional to the square root of the relative density

$$\text{i.e., } v_{\text{rms}} \propto \frac{1}{\sqrt{d}} \Rightarrow \frac{(v_{\text{rms}})_1}{(v_{\text{rms}})_2} = \sqrt{\frac{d_2}{d_1}}$$

- (b) According to Graham's law, the rate of diffusion of a gas is inversely proportional to the square root of its density, provided pressure and temperature are constant

$$r(\text{rate of diffusion}) \propto \frac{1}{\sqrt{\rho}}$$

- (vi) **Dalton's law:** The pressure exerted by a gaseous mixture is equal to sum of partial pressure of each component gases present in the mixture,

$$\text{i.e., } P = P_1 + P_2 + P_3 + \dots + P_n$$

A relation connecting macroscopic properties  $P$ ,  $V$  and  $T$  of a gas describing the state of the system is called **equation of state**.

The equation of state for an ideal gas of  $n$  mole is

$$\frac{PV}{T} = nR$$

where  $R$  is universal gas constant whose value is  $R = 8.31 \text{ J/mol K}$  and  $R = N_A k$ , where  $k$  is Boltzmann's constant ( $N_A$  is Avogadro number).  $n$  is the number of moles of a gas and

$$n = \frac{m}{M} = \frac{N}{N_A}, N_A \text{ is Avogadro's number}$$

where  $m$  is the mass of a gas,  $N$  is the number of molecules and  $M$  is the molecular weight of a gas.

### Equation of Real Gas :

The real gas follows Vander Wall's law. According to this:

$$\left( P + \frac{n^2 a}{V^2} \right) (V - nb) = nRT;$$

here  $a$  and  $b$  are Vander Wall's constant

### Critical Temperature, Volume and Pressure :

- (a) The temperature at or below which a gas can be liquefied by applying pressure alone is called **critical temperature**.

$$\text{It is given by } T_c = \frac{8a}{27Rb}$$

- (b) The volume of gas at a critical temperature  $T_c$  is called **critical volume**  $V_c$ , where  $V_c = 3b$

- (c) The pressure of gas at a critical temperature  $T_c$  is called **critical pressure**  $P_c$ , where  $P_c = \frac{a}{27b^2}$

### Gas Equation

- (i) The gases found in nature are real gases.  
(ii) The real gas do not obey ideal gas equation but they obey vander wall's gas equation

$$\left( P + \frac{a}{V^2} \right) (V - b) = RT$$

# Kinetic Theory Chapter 14 Section 1 Reinforcement

**Ralph M. Feather**



## **Kinetic Theory Chapter 14 Section 1 Reinforcement:**

**Holt Science and Technology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001-07 *Addison-Wesley Introduction to Physical Science* Michael B. Leyden, 1988

**Machine Learning and Hybrid Modelling for Reaction Engineering** Dongda Zhang, Ehecatl Antonio del Río Chanona, 2023-12-20 Over the last decade there has been a significant shift from traditional mechanistic and empirical modelling into statistical and data driven modelling for applications in reaction engineering. In particular, the integration of machine learning and first principle models has demonstrated significant potential and success in the discovery of bio chemical kinetics prediction and optimisation of complex reactions and scale up of industrial reactors. Summarising the latest research and illustrating the current frontiers in applications of hybrid modelling for chemical and biochemical reaction engineering, *Machine Learning and Hybrid Modelling for Reaction Engineering* fills a gap in the methodology development of hybrid models. With a systematic explanation of the fundamental theory of hybrid model construction, time varying parameter estimation, model structure identification and uncertainty analysis, this book is a great resource for both chemical engineers looking to use the latest computational techniques in their research and computational chemists interested in new applications for their work.

**Structural Bridge Engineering** Shahiron Shahidan, Mohid Haziman Wan Ibrahim, Norwatie Jamaluddin, Noorwirdawati Ali, Sharulniza Mokhatar, Zainorizuan Mohd Jaini, 2016-10-12 There are many books on preliminary studies and research in bridge design as well as basic knowledge on bridge engineering, but most books supply the needs of practicing engineers who may have problems in estimating, designing or constructing suspension bridges. Therefore, this book is intended to serve as a source of information for problems related to bridge engineering, including sustainable bridge development, traditional approaches and recent advances in highway bridge traffic loading, aesthetic analysis, issues in designing a new bridge, applications of various methods for the dissipation of seismic energy for bridges, new technologies of bridge design as well as structural identification of bridges using non destructive experimental measurement tests.

**Handbook of Slope Stabilisation** J. A. R. Ortigao, Alberto Sayao, 2013-03-09 This book is aimed at the practising engineer and engineering geologist working in tropical environments where landslides are mainly triggered by rain fall. This book is based on a similar work published in 1999 in Portuguese which became the Rio de Janeiro Slope Manual. This book is an engineering guide for the design of slopes and stabilisation works in rocks and residual soils. It evolves from the cumulative experience gathered by several engineers and geologists who faced severe slope problems. The authors' experience throughout Central and South America, Costa Rica, Argentina, Bolivia, Peru, Ecuador and Venezuela, and the Far East, especially Hong Kong and Malaysia, was used as a foundation for writing this book. The work also benefits enormously from the time spent in Hong Kong in 1996 and 1997 by the first editor on sabbatical at the City University of Hong Kong and the discussions he had with many colleagues from the Geotechnical Engineering Office (GEO) of the Hong Kong Government, especially Dr A Malone, Mr W K Pun, Dr A Li, Mr K Ho.

and Mr y c Chan among others      **Scientific and Technical Aerospace Reports** ,1990      **Motion, Forces** Prentice-Hall Staff,1994 Reviewed in The Textbook Letter 3 4 94      Civil Engineer's Reference Book L S Blake,1994-03-21 After an examination of fundamental theories as applied to civil engineering authoritative coverage is included on design practice for certain materials and specific structures and applications A particular feature is the incorporation of chapters on construction and site practice including contract management and control      **Polymer Structure Characterization** Richard A Pethrick,2015-10-20 The different physical properties displayed by low molar mass organic materials and polymers are a result of their molecular organisation In order to understand the structure property relationship of a material it is necessary to first look at the interactions at a molecular level This new edition of Polymer Structure Characterization provides readers with the background needed to understand the factors that influence molecular organization and how this affects the morphology and bulk physical properties of a material In order to introduce the concepts the book first looks at small molecular systems and builds up to complex macromolecular systems The second edition has been fully revised and updated to include new examples and references Topics covered include organic crystals liquid crystals plastic crystals polymer crystal growth amorphous glassy materials polymer surfaces and interfaces colloids and molecular organization in liquids as well as two new chapters on self assembly and biopolymer systems The book is intended to provide complimentary material for a range of undergraduate and postgraduate courses in materials science molecular chemistry and chemical physics In addition to polymer and material scientists the book would also be of interest to chemists and physicists studying the properties of organic materials      **Glencoe Earth Science** Ralph M. Feather,1999 Earth science is the study of Earth and space It is the study of such things as the transfer of energy in Earth s atmosphere the evolution of landforms patterns of change that cause weather the scale and structure of stars and the interactions that occur among the water atmosphere and land Earth science in this book is divided into four specific areas of study geology meteorology astronomy and oceanography p 8 9      **Chemistry in Canada** ,1964      **Applied mechanics reviews** ,1948      **Information Systems and Neuroscience** Fred D. Davis,René Riedl,Jan vom Brocke,Pierre-Majorique Léger,Adriane B. Randolph,2017-11-16 This book presents the proceedings of the Gmunden Retreat on NeuroIS 2017 reporting on topics at the intersection of Information Systems IS research neurophysiology and the brain sciences Readers will discover the latest findings from top scholars in the field of NeuroIS which offer detailed insights on the neurobiology underlying IS behavior essential methods and tools and their applications for IS as well as the application of neuroscience and neurophysiological theories to advance IS theory      Physical Properties of Polymers Handbook James E. Mark,2007-03-21 This book offers concise information on the properties of polymeric materials particularly those most relevant to physical chemistry and chemical physics Extensive updates and revisions to each chapter include eleven new chapters on novel polymeric structures reinforcing phases in polymers and experiments on single polymer chains The study of complex materials is highly interdisciplinary and new

findings are scattered among a large selection of scientific and engineering journals This book brings together data from experts in the different disciplines contributing to the rapidly growing area of polymers and complex materials

**Dynamic Behavior of Materials, Volume 1** Bo Song, Leslie Lamberson, Daniel Casem, Jamie Kimberley, 2025-08-07 Dynamic Behavior of Materials Volume 1 represents the first of nine volumes of technical papers presented at the Society for Experimental Mechanics SEM 15th International Congress and Residual Stress Thermomechanics Infrared Imaging Hybrid Techniques and Inverse Problems

**STAR**, 1966 Controlled Interphases in Composite Materials Hatsuo Ishida, 2012-12-06 The third International Conference on Composite Interfaces ICCI III was held under the auspices of ASM International The Aluminum Company of America Alcoa The Edison Polymer Innovation Co EPIC Case Western Reserve University Nippon Glass Fiber Co Nitto Boseki Co Office of Naval Research ONR SAMPE Japan Teijin Co Mobay Co Union Carbide Co and Vetrotex Sain Gobain The underlying philosophy of the conference continues to be the promotion of fundamental understanding of the structure and role of composite interfaces With the growth of composite interface studies the research direction naturally changes from characterization and understanding of interfacial structure to controlling this structure For this reason the conference was subtitled Controlled Interphase Structure The rather unfamiliar phrase interphase is used to emphasize the interfacial region whose properties are different from the bulk The importance of the interphase to the mechanochemical properties has been rapidly recognized among composite researchers in recent years The conference incorporated nine sessions No concurrent sessions were planned because of the strong interest among participants and organizers to intermix researchers from different disciplines Papers presented were redistributed in Parts I through V Because of this both the conference and proceedings are not organized based on the traditional disciplines or materials but rather around concepts

**Sustainable Technologies for the Management of Agricultural Wastes** Zainul Akmar Zakaria, 2017-12-21 This book discusses modern technologies for utilizing various types of agricultural waste as a direct means of properly managing its abundance It explores the potential of using waste materials obtained from the palm oil industry used cooking oil maize and tea plantations as well as citrus based plants for the production of useful high value materials such as pyroliginous acid and bio oil Chapter 1 ferulic acid Chapter 4 and bio control agents Chapter 5 7 9 It also includes case studies to further enhance readers understanding This comprehensive volume is useful to anyone involved in agricultural waste management green chemistry and agricultural biotechnology It is also recommended as a reference work for all agriculture and biotechnology libraries

**Psychological Models and Neural Mechanisms** Austen Clark, 1980 This book offers a systematic account of the reduction of psychological models of behavior to underlying neural mechanisms Clark has approached an extremely difficult and important issue in a systematic manner and has done much to clarify concepts that are all too often mismanaged and confused in the psychological literature American Scientist

*Proceedings of MSR-RoManSy 2024* Pierre Larochelle, J. Michael McCarthy, Craig P. Lusk, 2024-05-28 This book gathers the latest fundamental research contributions innovations and

applications in the field of design and analysis of complex robotic mechanical systems machines and mechanisms as presented by leading researchers at the combined IFToMM Symposium of RoManSy and USCToMM Symposium on Mechanical Systems and Robotics MSR RoManSy held in St Petersburg FL USA on May 22 25 2024 It covers highly diverse topics including soft wearable and origami robotic systems applications to walking flying climbing underground swimming and space systems human rehabilitation and performance augmentation design and analysis of mechanisms and machines human robot collaborative systems service robotics mechanical systems and robotics education and the commercialization of mechanical systems and robotics The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting and impactful research results that will inspire novel research directions and foster multidisciplinary research collaborations among researchers from around the globe

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