

10.1

THE NATURE OF GASES

SECTION REVIEW

Objectives

- Describe the motion of gas particles according to the kinetic theory
- Interpret gas pressures in terms of kinetic theory

Key Terms

- kinetic energy
- kinetic theory
- gas pressure
- vacuum
- standard atmospheric pressure
- atmospheric pressure
- barometer

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are highlighted in this section. Write the blank over the completed word or phrase, if one exists, or leave blank.

- The kinetic theory describes the _____ of particles in matter and the forces of attraction between them. The theory assumes that the volume occupied by a gas is mostly _____, that the particles of gas are _____, move _____ of each other, and are in constant _____ motion. Furthermore, the _____ between particles are elastic so that the total _____ remains constant. The pressure of a gas results from the countless collisions of the gas particles with an object. Barometers are used to measure _____ pressure. Standard conditions are defined as a temperature of _____ and a pressure of _____.
- _____
 - _____
 - _____
 - _____
 - _____
 - _____
 - _____
 - _____
 - _____
 - _____

Part B True-False

Classify each of these statements as true or false (true, *AT*; sometimes true, *ST*; or never true, *NT*).

- Atmospheric pressure is 760 mm Hg.
- The SI unit of pressure is the pascal.
- Atmospheric pressure increases as you climb a mountain because the air layer that surrounds the earth thickens with height.

Nature Of Gases Section Review Key

A Loxley



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Chemistry insights 'O' level Rex M. Heyworth,2007 **Sif: Chemistry 5na Tb** J. G. R. Briggs,2009 **Sif Chemistry NI Tb** Rex M. Heyworth,2007 **Chemistry 'O' Level** Rex M. Heyworth,2007 *Federal Register* ,2014 *Climate Change and Liberal Priorities* Gideon Calder,Catriona McKinnon,2013-09-13 Can and should liberalism make itself hospitable to a politics which does justice to climate change To what extent are the values methods and assumptions of liberalism adaptable to the challenges raised Liberal thinking broadly construed may dominate the Academy and the political landscape Are the environmental priorities that are thrown into relief by climate change a threat to it or are they an opportunity for it to show its worth This book explores fresh arguments by leading scholars both of whom are sceptical of liberalism s capacity to meet these challenges and sympathetic to the project of developing liberal values so as to create a liberal approach that can deliver climate change justice The chapters appeal to new insights and considerations reveal the complexity of the issues at stake in the real world of climate change politics They make the political theory of climate change justice available to decision makers whose practice will determine whether we achieve it This book was previously published as a special issue of *Critical Review of International Social and Political Economy* *Modern Biology* Towle,Albert Towle,1991 **Organic Photovoltaics** Sam-Shajing Sun,Niyazi Serdar Sariciftci,2017-12-19 Recently developed organic photovoltaics OPVs show distinct advantages over their inorganic counterparts due to their lighter weight flexible shape versatile materials synthesis and device fabrication schemes and low cost in large scale industrial production Although many books currently exist on general concepts of PV and inorganic PV materials and devices few are available that offer a comprehensive overview of recently fast developing organic and polymeric PV materials and devices *Organic Photovoltaics Mechanisms Materials and Devices* fills this gap The book provides an international perspective on the latest research in this rapidly expanding field with contributions from top experts around the world It presents a unified approach comprising three sections General Overviews Mechanisms and Modeling and Materials and Devices Discussions include sunlight capture exciton diffusion and dissociation interface properties charge recombination and migration and a variety of currently developing OPV materials devices The book also includes two forewords one by Nobel Laureate Dr Alan J Heeger and the other by Drs Aloysius Hepp and Sheila Bailey of NASA Glenn Research Center *Organic Photovoltaics* equips students researchers and engineers with knowledge of the mechanisms materials devices and applications of OPVs necessary to develop cheaper lighter and cleaner renewable energy throughout the coming decades **Comprehensive Inorganic Chemistry II** ,2013-07-23 *Comprehensive Inorganic Chemistry II* Nine Volume Set reviews and examines topics of relevance to today s inorganic chemists Covering more interdisciplinary and high impact areas *Comprehensive Inorganic Chemistry II* includes biological inorganic chemistry solid state chemistry materials chemistry and nanoscience The work is designed to follow on with a different viewpoint and format from our 1973 work *Comprehensive Inorganic Chemistry* edited by Bailar Emel us Nyholm

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