

Study Guide

Key Concepts

14.1 Properties of Gases

- Gases are easily compressed because of the space between particles in a gas.
- The amount of gas (n), volume (V), and temperature (T) are factors that affect gas pressure (P).

14.2 The Gas Laws

- As the pressure of a gas increases, the volume decreases, if the temperature is constant.
- As the temperature of an enclosed gas increases, the volume increases, if the pressure is constant.
- As the temperature of an enclosed gas increases, the pressure increases, if the volume is constant.

- The combined gas law allows you to do calculations for situations in which only the amount of gas is constant.

14.3 Ideal Gases

- To calculate the number of moles of a contained gas requires an expression that contains the variable n .
- Real gases differ most from an ideal gas at low temperatures and high pressures.

14.4 Gases: Mixtures and Movements

- In a mixture of gases, the total pressure is the sum of the partial pressures of the gases.
- Gases of lower molar mass diffuse and effuse faster than gases of higher molar mass.

Vocabulary

- Boyle's law (p. 418)
- Charles's law (p. 420)
- combined gas law (p. 424)
- compressibility (p. 413)
- Dalton's law of partial pressures (p. 432)
- diffusion (p. 435)
- effusion (p. 435)
- Gay-Lussac's law (p. 422)
- Graham's law of effusion (p. 435)
- ideal gas constant (p. 426)
- ideal gas law (p. 426)
- partial pressure (p. 432)

Key Equations

- Boyle's law: $P_1 \times V_1 = P_2 \times V_2$
- Charles's law: $\frac{V_1}{T_1} = \frac{V_2}{T_2}$
- Gay-Lussac's law: $\frac{P_1}{T_1} = \frac{P_2}{T_2}$
- Combined gas law: $\frac{P_1 \times V_1}{T_1} = \frac{P_2 \times V_2}{T_2}$
- Ideal gas law: $P \times V = n \times R \times T$ or $PV = nRT$
- Dalton's law: $P_{\text{total}} = P_1 + P_2 + P_3 + \dots$
- Graham's law: $\frac{\text{Rate}_A}{\text{Rate}_B} = \sqrt{\frac{\text{molar mass}_B}{\text{molar mass}_A}}$

Organizing Information

Use these terms to construct a concept map that organizes the major ideas of this chapter.



Concept Map 14 Solve the Concept Map with the help of an interactive guided tutorial.

with **ChemASAP**

Boyle's law

Charles's law

partial pressure

combined gas law

diffusion

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Philippe Gourbesville, Guy Caignaert



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Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11
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[Advances in Hydroinformatics](#) Philippe Gourbesville, Guy Caignaert, 2020-07-25 This book features a collection of extended papers based on presentations given at the SimHydro 2019 conference held in Sophia Antipolis in June 2019 with the support of French Hydrotechnic Society SHF focusing on Which models for extreme situations and crisis management Hydraulics and related disciplines are frequently applied in extreme situations that need to be understood accurately before implementing actions and defining appropriate mitigation measures However in such situations currently used models may be partly irrelevant due to factors like the new physical phenomena involved the scale of the processes and the hypothesis included in the different numerical tools The availability of computational resources and new capacities like GPU offers modellers the opportunity to explore various approaches to provide information for decision makers At the same time the topic of crisis management has sparked interest from stakeholders who need to share a common understanding of a situation Hydroinformatics tools can provide essential information in crises however the design and integration of models in decision support systems require further development and the engagement of various communities such as first responders In this context methodologies guidelines and standards are more and more in demand in order to ensure that the systems developed are efficient and sustainable Exploring both the limitations and performance of current models this book presents the latest developments based on new numerical schemes high performance computing multiphysics and multiscale methods as well as better integration of field scale model data As such it will appeal to practitioners stakeholders researchers and engineers active in this field

[Confronting Global Climate](#)

Change Mark Harris,2019-06-07 This book offers a solutions based approach to climate change problems which potentially impinge on human beings within the tropics It largely comprises research articles with supplementary applications and illustrations The effects of atmospheric phenomena energy acquisition wind power CO2 sequestration are linked with soils aquatic life reducing deforestation rainwater harvesting and clay pot farming climate plant disease and food security to show that no area of life is untouched by the phenomenon of climate change It discusses specific problem areas and provides an overview of geotechnical and sustainable solutions to lessen the impact of climate Clinical Biochemistry John S. Varcoe,2001 Clinical biochemistry is an analytical and interpretative science The analytical part involves the determination of the level of chemical components in body fluids and tissues The interpretative part examines these results and uses them in the diagnosis of disease the screening for susceptibility to specific diseases and the monitoring of the progress of treatment This book is designed to cover the major techniques and analytical instruments used in clinical biochemistry Each chapter of this book is based on a specific technique or techniques with associated instrumentation These are discussed in some detail A historical introduction is included for most of the techniques and the current uses of the techniques are presented Following that is a series of practical exercises The first exercises in most of the chapters are a general introduction to the technique leading to those with a clinical bias Where applicable the clinical practical exercises are associated with a case history and or the discussion of the relevance of the assay to diagnosis and prognosis and to the monitoring of recovery Each chapter concludes with a selection of appropriate references World Ocean Assessment Alan Simcock,2017-04-17 This United Nations report examines the current state of knowledge of the world s oceans for policymakers and provides a reference for marine science courses *The Chemical News* ,1906 **Chemical News and Journal of Industrial Science** ,1906 *Chemical News and Journal of Physical Science* ,1906 *Modern Enolate Chemistry* Manfred Braun,2016-02-23 Authored by one of the world s leading synthetic chemists in the field this reference presents modern enolate chemistry with an emphasis on metal O enolates in asymmetric synthesis While great care is taken to cover novel successful concepts such classical methods as the famous Evans enolates are equally highlighted Throughout the book representative reaction procedures are presented thus helping readers to find the best solution for their own synthetic problem Of high interest to synthetic chemists in academia as well as the pharmaceuticals agrochemicals and fine chemicals industries **Research and Development Progress Report** United States. Office of Saline Water,1965 **The Illustrated London News** ,1877

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