

**14****THE BEHAVIOR OF GASES****Chapter Test B****A. Matching****Column A**

- \_\_\_\_\_ 1. At constant volume and temperature, the total pressure exerted by a mixture of gases is equal to the sum of the partial pressures of the component gases.
- \_\_\_\_\_ 2. The volume of a fixed mass of gas is directly proportional to its Kelvin temperature if the pressure is kept constant.
- \_\_\_\_\_ 3. The rate of effusion of a gas is inversely proportional to the square root of its molar mass.
- \_\_\_\_\_ 4. the contribution each gas in a mixture makes to the total pressure of that mixture
- \_\_\_\_\_ 5. a measure of how much the volume of matter decreases under pressure
- \_\_\_\_\_ 6. For a given mass of gas at constant temperature, the volume of the gas varies inversely with pressure.
- \_\_\_\_\_ 7. the tendency of particles to move toward areas of lower concentration until the concentration is uniform throughout
- \_\_\_\_\_ 8.  $\frac{P_1 \times V_1}{T_1} = \frac{P_2 \times V_2}{T_2}$
- \_\_\_\_\_ 9. the escape of a gas through a tiny hole in a container of gas
- \_\_\_\_\_ 10. 8.31 (L·kPa) / (K·mol)

**Column B**

- a. combined gas law
- b. ideal gas constant ( $R$ )
- c. diffusion
- d. compressibility
- e. Boyle's law
- f. partial pressure
- g. Dalton's law of partial pressures
- h. effusion
- i. Charles's law
- j. Graham's law of effusion

# Chapter Test B Gases

**Nimir O. Elbashir, Mahmoud M. El-Halwagi, Ioannis G. Economou, Kenneth R. Hall**

## Chapter Test B Gases:

**Natural Gas Processing from Midstream to Downstream** Nimir O. Elbashir, Mahmoud M. El-Halwagi, Ioannis G. Economou, Kenneth R. Hall, 2018-11-27 A comprehensive review of the current status and challenges for natural gas and shale gas production treatment and monetization technologies Natural Gas Processing from Midstream to Downstream presents an international perspective on the production and monetization of shale gas and natural gas The authors review techno economic assessments of the midstream and downstream natural gas processing technologies Comprehensive in scope the text offers insight into the current status and the challenges facing the advancement of the midstream natural gas treatments Treatments covered include gas sweetening processes sulfur recovery units gas dehydration and natural gas pipeline transportation The authors highlight the downstream processes including physical treatment and chemical conversion of both direct and indirect conversion The book also contains an important overview of natural gas monetization processes and the potential for shale gas to play a role in the future of the energy market specifically for the production of ultra clean fuels and value added chemicals This vital resource Provides fundamental chemical engineering aspects of natural gas technologies Covers topics related to upstream midstream and downstream natural gas treatment and processing Contains well integrated coverage of several technologies and processes for treatment and production of natural gas Highlights the economic factors and risks facing the monetization technologies Discusses supply chain environmental and safety issues associated with the emerging shale gas industry Identifies future trends in educational and research opportunities directions and emerging opportunities in natural gas monetization Includes contributions from leading researchers in academia and industry Written for Industrial scientists academic researchers and government agencies working on developing and sustaining state of the art technologies in gas and fuels production and processing Natural Gas Processing from Midstream to Downstream provides a broad overview of the current status and challenges for natural gas production treatment and monetization technologies *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science* ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Quarterly Journal of Microscopical Science** ,1929 **Sciasmtbk Matter and Energy** Mcgraw Hil,1999-04 The Journal of Gas Lighting, Water Supply & Sanitary Improvement ,1892 Fuel, Water and Gas Analysis for Steam Users John Baker Cannington Kershaw,1919 The Gas Record ,1914 **Fuel, Water and Gas Analysis for Steam Users, by John B.C. Kershaw** John Baker Cannington Kershaw,1907 **Oil and Gas Yielding Formations of California** William Lord Watts,1900 *Industrial Refrigeration* ,1924 *Ice and Refrigeration* ,1924 Journal of Gas Lighting and Water Supply

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