

Ideal gas law - problems and solutions

1. Ideal gases in a closed container initially have volume V and temperature T . The final temperature is $5/4T$ and the final pressure is $2P$. What is the final volume of gases.

Known :

Initial volume (V_1) = V

Initial temperature (T_1) = T

Final temperature (T_2) = $5/4 T$

Initial pressure (P_1) = P

Final pressure (P_2) = $2P$

Wanted : Final volume (V_2)

Solution :

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$$

$$\frac{P V}{T} = \frac{(2P) V_2}{5/4 T}$$

$$\frac{V}{1} = \frac{2 V_2}{5/4}$$

$$5/4 V = 2 V_2$$

$$V_2 = \frac{5V}{4} \cdot \frac{2}{1}$$

$$V_2 = \frac{5V}{4} \times \frac{1}{2}$$

$$V_2 = \frac{5V}{8}$$

2. Determine the volume of 2.00 moles of gases (ideal gas) at STP. STP = Standard Temperature and Pressure.

Known :

Moles of gas (n) = 2 moles

Standard temperature (T) = $0^\circ\text{C} = 0 + 273 = 273$ Kelvin

Standard pressure (P) = 1 atm = 1.013×10^5 Pa

Universal gas constant (R) = 8.315 Joule/mole.Kelvin

Wanted : Volume of gases (V)

Solution :

Read more :

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Gas Law Problems With Solutions

American Chemical Society

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Gas Law Problems With Solutions:

Survival Guide to General Chemistry Patrick E. McMahon, Rosemary McMahon, Bohdan Khomtchouk, 2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics The focus is not to recap or review the theoretical concepts well described in the available texts Instead the topics and descriptions in this book make available specific detailed step by step methods and procedures for solving the major types of problems in general chemistry Explanations instructional process sequences solved examples and completely solved practice problems are greatly expanded containing significantly more detail than can usually be devoted to in a comprehensive text Many chapters also provide alternative viewpoints as an aid to understanding Key Features The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester Each is written in a specific and detailed step by step process for problem solving whether mathematical or conceptual Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts Includes a chapter designed to eliminate confusion concerning acid base reactions which often persists through working with acid base equilibrium Many chapters provide alternative viewpoints as an aid to understanding This book addresses a very real need for a large number of incoming freshman in STEM fields

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web the hitchhiker s guide to the galaxy 1 is a bbc television adaptation of douglas adams the hitchhiker s guide to the galaxy which aired between 5 january and 9 february 1981 on bbc two in the united kingdom the adaptation follows the original radio series in 1978 and 1980 the first novel and double lp in 1979 and the stage shows in

the hitchhiker s guide to the galaxy tv series imdb - Apr 30 2022

web the hitchhiker s guide to the galaxy based on douglas adams series of novels following the intergalactic adventures of arthur dent a hapless englishman following the destruction of earth by the vogons a race of unpleasant and bureaucratic aliens

the hitchhiker s guide to the galaxy plot overview sparknotes - Jan 28 2022

web plot overview arthur dent awakes one day to find a demolition crew outside his house preparing to bulldoze it down to make way for a new bypass he throws himself down in front of the bulldozer to try to stop the demolition

the hitchhiker s guide to the galaxy summary litcharts - Jun 01 2022

web the hitchhiker s guide to the galaxy summary arthur dent wakes up hungover one day and notices construction machinery stationed outside his house slowly he recalls what he learned the previous evening his house is set to be demolished to make way for a new bypass rushing outside he confronts mr prosser the construction foreman by

bbc radio 4 the hitchhiker s guide to the galaxy the game - Mar 30 2022

web about the hitchhiker s guide to the galaxy game a brief history and background information about the world s first user mendacious game view about the game game technical faq

the hitchhiker s guide to the galaxy 2005 plot imdb - Jul 02 2022

web waking up one morning a british man named arthur dent awakens and finds out that his house is going to be demolished but for arthur the demolition of his house is only the beginning arthur s friend eccentric ford prefect reveals to earth that he is not human and he is an alien from a planet called betelgeuse and is a researcher of a

the hitchhiker s guide to the galaxy summary facts - May 12 2023

web the hitchhiker s guide to the galaxy the first book 1979 in the highly popular series of comic science fiction novels by british writer douglas adams the saga mocks modern society with humor and cynicism

the hitchhiker s guide to the galaxy wikipedia - Aug 15 2023

web the hitchhiker s guide to the galaxy a b is a comedy science fiction franchise created by douglas adams originally a 1978 radio comedy broadcast on bbc radio 4 it was later adapted to other formats including novels stage shows comic books a 1981 tv series a 1984 text adventure game and 2005 feature film

the hitchhiker s guide to the galaxy film wikipedia - Apr 11 2023

web plot one thursday morning arthur dent discovers that his house is to be immediately demolished to make way for a bypass he tries delaying the bulldozers by lying down in front of them ford prefect a friend of arthur s convinces him to go to a pub with him

the hitchhiker s guide to the galaxy radio series wikipedia - Nov 06 2022

web the hitchhiker s guide to the galaxy is a science fiction comedy radio series primarily written by douglas adams it was

originally broadcast in the united kingdom by bbc radio 4 in 1978 and afterwards the bbc world service national public radio in the us and cbc radio in canada the series was the first radio comedy programme to be produced in

the hitchhiker s guide to the galaxy study guide litcharts - Sep 04 2022

web the hitchhiker s guide to the galaxy is the first book in douglas adams s series of five novels tracing arthur dent s journey through space the second installation is called the restaurant at the end of the universe and it picks up where the hitchhiker s guide leaves off following arthur and his friends as they leave magrathea and head for a quick bite

the hitchhiker s guide to the galaxy nature - Dec 07 2022

web oct 2 2019 don t panic the plot of the hitchhiker s guide centres on permanently bemused human protagonist arthur dent who wanders the universe after the destruction of earth with alien travel writer ford