

Section 12.1 Gases

Objectives

- **Use** the kinetic-molecular theory to explain the behavior of gases.
- **Describe** how mass affects the rates of diffusion and effusion.
- **Explain** how gas pressure is measured and calculate the partial pressure of a gas.

Review Vocabulary

kinetic energy: energy due to motion



Chapter 1section Gases

Thomas Griffiths



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web a_1 angular points axes of reference axial vector b_1 b_2 c_1 centre of mass circle coefficients constant coordinates curve diagonals dicular differential direction cosines displacement $\frac{d\mathbf{r}}{dt}$ $\frac{d\mathbf{r}}{dt}$ ellipse equal expression f_1 figure forces given point

grad initial point length let $\vec{oa}$ let $\vec{oa} = a \hat{n}_1$ magnitude and direction $\hat{n}_1$ $\vec{ob} = b \hat{oc}$

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web numerically the solution is $\vec{d} = \vec{d}_0 + \vec{d}_1 + \vec{d}_2 + \vec{d}_3 + \vec{d}_4 + \vec{d}_5 + \vec{d}_6$ find the unit vectors that point from a to the other points b to g in question 2 express each vector in component $\hat{i}\hat{j}$ notation

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