

Mass Transfer

○ Self-diffusion

- *diffusion in a pure substance*
- *consider tagging molecules and watching how they migrate*

○ Diffusion equations

- *Combine mass balance with Fick's law*

$$\frac{\partial c}{\partial t} - D\nabla^2 c(\mathbf{r}, t) = 0$$

- *Take as boundary condition a point concentration at the origin*

$$c(\mathbf{r}, t) = \delta(\mathbf{r}) \quad \text{For given configuration, each molecule represents a point of high concentration (fluctuation)}$$

○ Solution

$$c(\mathbf{r}, t) = (2\pi Dt)^{-d/2} \exp\left(-\frac{r^2}{2Dt}\right)$$

○ Second moment

$$\begin{aligned} \langle r^2(t) \rangle &= \int r^2 c(\mathbf{r}, t) d\mathbf{r} \\ &= 2dDt \end{aligned}$$

RMS displacement increases as $t^{1/2}$

Compare to ballistic $r \sim t$

Mass Transfer Problems Solutions

Katrin Zwirgmaier



Mass Transfer Problems Solutions :

Mass Transfer Problems Solutions Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Mass Transfer Problems Solutions** ," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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