

# 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

**DJ Losen**



## **Mass Transfer Problems Solutions :**

*Solutions Manual to Accompany Transport Phenomena in Materials Processing* E. J. Poirier, D. R. Poirier, G. H. Geiger, 1994 This text provides a teachable and readable approach to transport phenomena by providing numerous examples and applications The text leads the reader through the development and solution of relevant differential equations by applying familiar principles of conservation to numerous situations and by including many worked examples in each chapter The book is organized similarly to other texts in transport phenomena Section I deals with the properties and mechanics of fluid motion Section II with thermal properties and heat transfer and Section III with diffusion and mass transfer The authors depart from tradition by building on a presumed understanding of the relationships between the structure and properties of matter particularly in the chapters devoted to the transport properties Generous portions of the text numerous examples and many problems apply transport phenomena to materials processing Transport Phenomena in Materials Processing E.J. Poirer, D.R. Poirer, 2017-08-18

*Transport Phenomena in Dispersed Media* G. I. Kelbaliyev, D. B. Tagiyev, S.R. Rasulov, 2019-09-26 Transport Phenomena in Dispersed Media addresses the main problems associated with the transfer of heat mass and momentum The authors focus on the analytical solutions of the mass and heat transfer equations the theoretical problems of coalescence coagulation aggregation and fragmentation of dispersed particles the rheology of structured aggregate and kinetically stable disperse systems the precipitation of particles in a turbulent flow the evolution of the distribution function the stochastic counterpart of the mass transfer equations the dissipation of energy in disperse systems and many other problems that distinguish this book from existing publications Key Selling Features Covers all technological processes taking place in the oil and gas complex as well as in the petrochemical industry Presents new original solutions for calculating design as well as for the development and implementation of processes of chemical technology Organized to first provide an extensive review of each chapter topic solve specific problems and then review the solutions with the reader Contains complex mathematical expressions for practical calculations Compares results obtained on the basis of mathematical models with experimental data Advanced Transport Phenomena John C. Slattery, 1999-07-13

Text on momentum energy and mass transfer for graduate engineering students Analytical Solutions for Transport Processes Günter Brenn, 2016-07-26 This book provides analytical solutions to a number of classical problems in transport processes i e in fluid mechanics heat and mass transfer Expanding computing power and more efficient numerical methods have increased the importance of computational tools However the interpretation of these results is often difficult and the computational results need to be tested against the analytical results making analytical solutions a valuable commodity Furthermore analytical solutions for transport processes provide a much deeper understanding of the physical phenomena involved in a given process than do corresponding numerical solutions Though this book primarily addresses the needs of researchers and practitioners it may also be beneficial for graduate students just entering the field *Case Studies in Fluid*

*Mechanics with Sensitivities to Governing Variables* M. Kemal Atesmen, 2018-11-06 Covers a wide range of practical fluid mechanics heat transfer and mass transfer problems This book covers the many issues that occur in practical fluid mechanics heat transfer and mass transfer and examines the basic laws the conservation of matter conservation of momentum conservation of energy and the second law of thermodynamics of these areas It offers problem solutions that start with simplifying engineering assumptions and then identifies the governing equations and dependent and independent variables When solutions to basic equations are not possible the book utilizes historical experimental studies It also looks at determining appropriate thermo physical properties of the fluid under investigation and covers solutions to governing equations with experimental studies Case Studies in Fluid Mechanics with Sensitivities to Governing Variables offers chapters on draining fluid from a tank vertical rise of a weather balloon wind drag forces on people Venturi meter fluid surface shape in a rotating cylindrical tank range of an aircraft designing a water clock water turbine under a dam centrifugal separation of particles ideal gas flow in nozzles and diffusers water supply from a lake to a factory convection mass transfer through air water interface heating a room by natural convection condensation on the surface of a vertical plate in laminar flow regime bubble rise in a glass of beer and more Covers a broad spectrum of problems in practical fluid mechanics heat transfer and mass transfer Examines the basic laws of fluid mechanics heat transfer and mass transfer Presents solutions to governing equations with experimental studies Case Studies in Fluid Mechanics with Sensitivities to Governing Variables will appeal to engineers working in thermo physical sciences and graduate students in mechanical engineering

**Solutions to Some of the Problems in Momentum, Heat, and Mass Transfer** Carroll O. Bennett, J. E. Myers, 1963\* *Mass Transfer Operations for the Practicing Engineer* Louis Theodore, Francesco Ricci, 2011-12-06 An invaluable guide for problem solving in mass transfer operations This book takes a highly pragmatic approach to providing the principles and applications of mass transfer operations by offering a valuable easily accessible guide to solving engineering problems Both traditional and novel mass transfer processes receive treatment As with all of the books in this series emphasis is placed on an example based approach to illustrating key engineering concepts The book is divided into two major parts It starts with the principles underlying engineering problems showing readers how to apply general engineering principles to the topic of mass transfer operations It then goes on to provide step by step guidance for traditional mass transfer operations including distillation absorption and stripping and adsorption plus novel mass transfer processes Essential topics for professional engineering exams are also covered Geared towards chemical environmental civil and mechanical engineers working on real world industrial applications Mass Transfer Operations for the Practicing Engineer features Numerous sample problems and solutions with real world applications Clear precise explanations on how to carry out the basic calculations associated with mass transfer operations Coverage of topics from the ground up for readers without prior knowledge of the subject Overview of topics relevant to the ABET Accreditation Board for Engineering and

Technology for those taking the Professional Engineering PE exams Appendix containing relevant mass transfer operation charts and tables *Transport Phenomena in Materials Processing* David R. Poirier,G. Geiger,2016-12-06 This text provides a teachable and readable approach to transport phenomena momentum heat and mass transport by providing numerous examples and applications which are particularly important to metallurgical ceramic and materials engineers Because the authors feel that it is important for students and practicing engineers to visualize the physical situations they have attempted to lead the reader through the development and solution of the relevant differential equations by applying the familiar principles of conservation to numerous situations and by including many worked examples in each chapter The book is organized in a manner characteristic of other texts in transport phenomena Section I deals with the properties and mechanics of fluid motion Section II with thermal properties and heat transfer and Section III with diffusion and mass transfer The authors depart from tradition by building on a presumed understanding of the relationships between the structure and properties of matter particularly in the chapters devoted to the transport properties viscosity thermal conductivity and the diffusion coefficients In addition generous portions of the text numerous examples and many problems at the ends of the chapters apply transport phenomena to materials processing **Applied Mechanics Reviews** ,1967

**Solutions to the Problems in Book** Erden Alpay,2011 Transport Phenomena Problem Solver ,1984

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**Chemical Engineering: Solutions to the Problems in Volume 1** J R Backhurst,J H Harker,J.F. Richardson,2013-10-22 This volume in the Coulson and Richardson series in chemical engineering contains full worked solutions to the problems posed in volume 1 Whilst the main volume contains illustrative worked examples throughout the text this book contains answers to the more challenging questions posed at the end of each chapter of the main text These questions are of both a standard and non standard nature and so will prove to be of interest to both academic staff teaching courses in this area and to the keen student Chemical engineers in industry who are looking for a standard solution to a real life problem will also find the book of considerable interest An invaluable source of information for the student studying the material contained in Chemical Engineering Volume 1 A helpful method of learning answers are explained in full *Numerical Methods in Thermal Problems* Roland Wynne Lewis,Kenneth

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