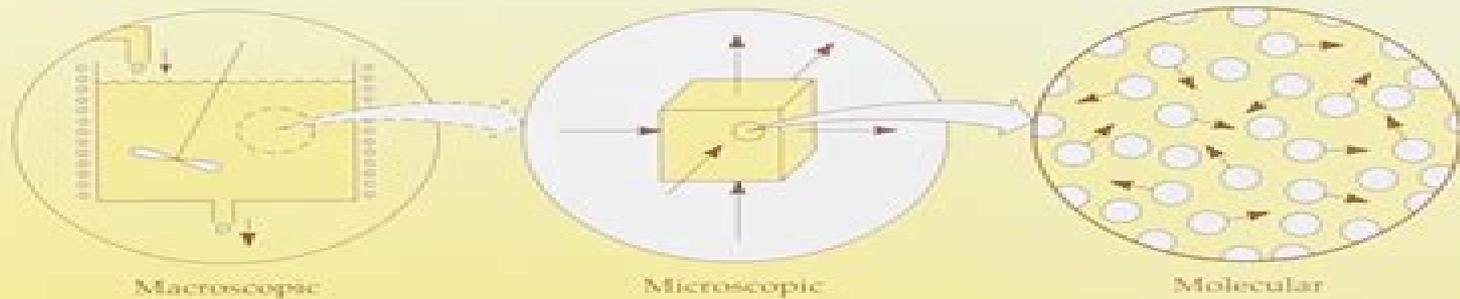


Transport Phenomena

Revised
Second Edition



R. Byron Bird • Warren E. Stewart
Edwin N. Lightfoot

Transport Phenomena

Robert Byron Bird



Transport Phenomena:

Transport Phenomena Robert S. Brodkey, Harry C. Hershey, 2003-02 This book teaches the basic equations of transport phenomena in a unified manner and uses the analogy between heat transfer and mass and momentum to explain the more difficult concepts Part I covers the basic concepts in transport phenomena Part II covers applications in greater detail Part III deals with the transport properties The three transport phenomena heat mass and momentum transfer are treated in depth through simultaneous or parallel developments Transport properties such as viscosity thermal conductivity and mass diffusion coefficient are introduced in a simple manner early on and then applied throughout the rest of the book Advanced discussion is provided separately An entire chapter is devoted to the crucial material of non Newtonian phenomena This book covers heat transfer as it pertains to transport phenomena and covers mass transfer as it relates to the analogy with heat and momentum The book includes a complete treatment of fluid mechanics for Ch E s The treatment begins with Newton s law and including laminar flow turbulent flow fluid statics boundary layers flow past immersed bodies and basic and advanced design in pipes heat exchanges and agitation vessels This text is the only one to cover modern agitation design and scale up thoroughly The chapter on turbulence covers not only traditional approaches but also includes the most contemporary concepts of the transition and of coherent structures in turbulence The book includes an extensive treatment of fluidization Computer programs and numerical methods are integrated throughout the text especially in the example problems

Transport Phenomena R. Byron Bird, Warren E. Stewart, Edwin N. Lightfoot, 2006-12-11 The market leading transport phenomena text has been revised Authors Bird Stewart and Lightfoot have revised *Transport Phenomena* to include deeper and more extensive coverage of heat transfer enlarged discussion of dimensional analysis a new chapter on flow of polymers systematic discussions of convective momentum energy and mass transport and transport in two phase systems If this is your first look at *Transport Phenomena* you ll quickly learn that its balanced introduction to the subject of transport phenomena is the foundation of its long standing success About the Revised 2nd Edition Since the appearance of the second edition in 2002 the authors and numerous readers have found a number of errors some major and some minor In the Revised 2nd Edition the authors have endeavored to correct these errors A new ISBN has been assigned to the Revised 2nd Edition in order to more easily identify the most correct version For Bird s corrigenda please click here and see *Transport Phenomena* in the Books section [Introduction to Transport Phenomena](#) William J. Thomson, 2000 Professor William J Thomson emphasizes the

formulation of differential equations to describe physical problems helping readers understand what they are doing and why The solutions are either simple separable linear second order or derivable with a differential equation solver BOOK JACKET

Interfacial Transport Phenomena John C. Slattery, Leonard Sagis, Eun-Suok Oh, 2007-04-13 This is an extensively revised second edition of *Interfacial Transport Phenomena* a unique presentation of transport phenomena or continuum mechanics focused on momentum energy and mass transfer at interfaces It discusses transport phenomena at common lines

or three phase lines of contact The emphasis is upon achieving an in depth understanding based upon first principles It includes exercises and answers and can serve as a graduate level textbook

Transport Phenomena in Multiphase Flows Roberto Mauri,2023-06-12 This textbook provides a thorough presentation of the phenomena related to the transport of mass with and without electric charge momentum and energy It lays all the basic physical principles and then for the more advanced readers it offers an in depth treatment with advanced mathematical derivations and ends with some useful applications of the models and equations in specific settings The important idea behind the book is to unify all types of transport phenomena describing them within a common framework in terms of cause and effect respectively represented by the driving force and the flux of the transported quantity The approach and presentation are original in that the book starts with a general description of transport processes providing the macroscopic balance relations of fluid dynamics and heat and mass transfer before diving into the mathematical realm of continuum mechanics to derive the microscopic governing equations at the microscopic level The book is a modular teaching tool and is used either for an introductory or for an advanced graduate course The last six chapters are of interest to more advanced researchers who might be interested in applications in physics mechanical engineering or biomedical engineering In particular this second edition of the book includes two chapters about electric migration that is the transport of mass that takes place in a mixture under the action of electro magnetic fields Electric migration finds many applications in the modeling of energy storage devices such as batteries and fuel cells All chapters are complemented with solved exercises that are essential to complete the learning process

Transport Phenomena Larry A. Glasgow,2010-12-01 Enables readers to apply transport phenomena principles to solve advanced problems in all areas of engineering and science This book helps readers elevate their understanding of and their ability to apply transport phenomena by introducing a broad range of advanced topics as well as analytical and numerical solution techniques Readers gain the ability to solve complex problems generally not addressed in undergraduate level courses including nonlinear multidimensional transport and transient molecular and convective transport scenarios Avoiding rote memorization the author emphasizes a dual approach to learning in which physical understanding and problem solving capability are developed simultaneously Moreover the author builds both readers interest and knowledge by Demonstrating that transport phenomena are pervasive affecting every aspect of life Offering historical perspectives to enhance readers understanding of current theory and methods Providing numerous examples drawn from a broad range of fields in the physical and life sciences and engineering Contextualizing problems in scenarios so that their rationale and significance are clear This text generally avoids the use of commercial software for problem solutions helping readers cultivate a deeper understanding of how solutions are developed References throughout the text promote further study and encourage the student to contemplate additional topics in transport phenomena Transport Phenomena is written for advanced undergraduates and graduate students in chemical and mechanical engineering Upon mastering the principles and

techniques presented in this text all readers will be better able to critically evaluate a broad range of physical phenomena processes and systems across many disciplines

Transport Phenomena in Newtonian Fluids - A Concise Primer Per Olsson,2013-08-30 This short primer provides a concise and tutorial style introduction to transport phenomena in Newtonian fluids in particular the transport of mass energy and momentum The reader will find detailed derivations of the transport equations for these phenomena as well as selected analytical solutions to the transport equations in some simple geometries After a brief introduction to the basic mathematics used in the text Chapter 2 which deals with momentum transport presents a derivation of the Navier Stokes Duhem equation describing the basic flow in a Newtonian fluid Also provided at this stage are the derivations of the Bernoulli equation the pressure equation and the wave equation for sound waves The boundary layer turbulent flow and flow separation are briefly reviewed Chapter 3 which addresses energy transport caused by thermal conduction and convection examines a derivation of the heat transport equation Finally Chapter 4 which focuses on mass transport caused by diffusion and convection discusses a derivation of the mass transport equation

Transport Phenomena Problem Solver ,1984 Transport Phenomena Robert S. Brodkey,Harry C. Hershey,2003-02 Part II covers applications in greater detail The three transport phenomena heat mass and momentum transfer are treated in depth through simultaneous or parallel developments

Transport Phenomena Fundamentals, Third Edition Joel L. Plawsky,2014-01-23 The third edition of Transport Phenomena Fundamentals continues with its streamlined approach to the subject of transport phenomena based on a unified treatment of heat mass and momentum transport using a balance equation approach The new edition makes more use of modern tools for working problems such as COMSOL Maple and MATLAB It introduces new problems at the end of each chapter and sorts them by topic for ease of use It also presents new concepts to expand the utility of the text beyond chemical engineering The text is divided into two parts which can be used for teaching a two term course Part I covers the balance equation in the context of diffusive transport momentum energy mass and charge Each chapter adds a term to the balance equation highlighting that term s effects on the physical behavior of the system and the underlying mathematical description Chapters familiarize students with modeling and developing mathematical expressions based on the analysis of a control volume the derivation of the governing differential equations and the solution to those equations with appropriate boundary conditions Part II builds on the diffusive transport balance equation by introducing convective transport terms focusing on partial rather than ordinary differential equations The text describes paring down the microscopic equations to simplify the models and solve problems and it introduces macroscopic versions of the balance equations for when the microscopic approach fails or is too cumbersome The text discusses the momentum Bournoulli energy and species continuity equations including a brief description of how these equations are applied to heat exchangers continuous contactors and chemical reactors The book also introduces the three fundamental transport coefficients the friction factor the heat transfer coefficient and the mass transfer coefficient in the context of

boundary layer theory The final chapter covers the basics of radiative heat transfer including concepts such as blackbodies graybodies radiation shields and enclosures The third edition incorporates many changes to the material and includes updated discussions and examples and more than 70 new homework problems

A Modern Course in Transport Phenomena David C. Venerus, Hans Christian Öttinger, 2018-03-15 This advanced text presents a unique approach to studying transport phenomena Bringing together concepts from both chemical engineering and physics it makes extensive use of nonequilibrium thermodynamics discusses kinetic theory and sets out the tools needed to describe the physics of interfaces and boundaries More traditional topics such as diffusive and convective transport of momentum energy and mass are also covered This is an ideal text for advanced courses in transport phenomena and for researchers looking to expand their knowledge of the subject The book also includes Novel applications such as complex fluids transport at interfaces and biological systems Approximately 250 exercises with solutions included separately designed to enhance understanding and reinforce key concepts End of chapter summaries

Transport Phenomena Fundamentals Joel L. Plawsky, 2020-02-27 The fourth edition of Transport Phenomena Fundamentals continues with its streamlined approach to the subject based on a unified treatment of heat mass and momentum transport using a balance equation approach The new edition includes more worked examples within each chapter and adds confidence building problems at the end of each chapter Some numerical solutions are included in an appendix for students to check their comprehension of key concepts Additional resources online include exercises that can be practiced using a wide range of software programs available for simulating engineering problems such as COMSOL Maple Fluent Aspen Mathematica Python and MATLAB lecture notes and past exams This edition incorporates a wider range of problems to expand the utility of the text beyond chemical engineering The text is divided into two parts which can be used for teaching a two term course Part I covers the balance equation in the context of diffusive transport momentum energy mass and charge Each chapter adds a term to the balance equation highlighting that term s effects on the physical behavior of the system and the underlying mathematical description Chapters familiarize students with modeling and developing mathematical expressions based on the analysis of a control volume the derivation of the governing differential equations and the solution to those equations with appropriate boundary conditions Part II builds on the diffusive transport balance equation by introducing convective transport terms focusing on partial rather than ordinary differential equations The text describes paring down the full microscopic equations governing the phenomena to simplify the models and develop engineering solutions and it introduces macroscopic versions of the balance equations for use where the microscopic approach is either too difficult to solve or would yield much more information that is actually required The text discusses the momentum Bernoulli energy and species continuity equations including a brief description of how these equations are applied to heat exchangers continuous contactors and chemical reactors The book introduces the three fundamental transport coefficients the friction factor the heat transfer coefficient and the mass transfer coefficient in the

context of boundary layer theory Laminar flow situations are treated first followed by a discussion of turbulence The final chapter covers the basics of radiative heat transfer including concepts such as blackbodies graybodies radiation shields and enclosures

Petroleum Refining Processes James G. Speight, Baki Ozum, 2001-10-31 This work highlights contemporary approaches to resource utilization and provides comprehensive coverage of technological advances in residuum conversion It illustrates state of the art engineering methods for the refinement of heavy oils bitumen and other high sulphur feedstocks

Transport Phenomena Robert Byron Bird, 1960 *Analysis of Transport Phenomena* William M. Deen, 2012-09-06

Deen's first edition has served as an ideal text for graduate level transport courses within chemical engineering and related disciplines It has successfully communicated the fundamentals of transport processes to students with its clear presentation and unified treatment of momentum heat and mass transfer and its emphasis on the concepts and analytical techniques that apply to all of these transport processes This text includes distinct features such as mathematically self contained discussions and a clear thorough discussion of scaling principles and dimensional analysis This new edition offers a more integrative approach covering thermal conduction and diffusion before fluid mechanics and introducing mathematical techniques more gradually to provide students with a better foundation for more advanced problems later on It also provides a broad range of new real world examples and exercises which reflects the current shifts of emphasis within chemical engineering practice and research to biological applications microsystem technologies membranes thin films and interfacial phenomena Finally this edition includes a new appendix with a concise review of how to solve the differential equations most commonly encountered transport problems

INTRODUCTION TO TRANSPORT PHENOMENA RAJ, BODH, 2012-01-19 This introductory text discusses the essential concepts of three fundamental transport processes namely momentum transfer heat transfer and mass transfer Apart from chemical engineering transport processes play an increasingly important role today in the fields of biotechnology nanotechnology and microelectronics The book covers the basic laws of momentum heat and mass transfer All the three transport processes are explained using two approaches first by flux expressions and second by shell balances These concepts are applied to formulate the physical problems of momentum heat and mass transfer Simple physical processes from the chemical engineering field are selected to understand the mechanism of these transfer operations Though these problems are solved for unidirectional flow and laminar flow conditions only turbulent flow conditions are also discussed Boundary conditions and Prandtl mixing models for turbulent flow conditions are explained as well The unsteady state conditions for momentum heat and mass transfer have also been highlighted with the help of simple cases Finally the approach of analogy has also been adopted in the book to understand these three molecular transport processes Different analogies such as Reynolds Prandtl von Karman and Chilton Colburn are discussed in detail This book is designed for the undergraduate students of chemical engineering and covers the syllabi on Transport Phenomena as currently prescribed in most institutes and universities

An Introduction to Transport Phenomena In Materials

Engineering David R. Gaskell, 2012-08-17 This classic text on fluid flow heat transfer and mass transport has been brought up to date in this second edition. The author has added a chapter on Boiling and Condensation that expands and rounds out the book's comprehensive coverage on transport phenomena. These new topics are particularly important to current research in renewable energy resources involving technologies such as windmills and solar panels. This second edition of *An Introduction to Transport Phenomena in Materials Engineering* provides materials science and engineering students and professionals with a clear yet thorough introduction to these important concepts. It balances the explanation of the fundamentals governing fluid flow and the transport of heat and mass with common applications of these fundamentals to specific systems existing in materials engineering. Inside you will discover the use of familiar examples such as air and water to introduce the influences of properties and geometry on fluid flow. An organization with sections dealing separately with fluid flow, heat transfer, and mass transport. This sequential structure allows the development of heat transport concepts to employ analogies of heat flow with fluid flow and the development of mass transport concepts to employ analogies with heat transport. Ample high quality graphs and figures throughout. Key points presented in chapter summaries. End of chapter exercises and solutions to selected problems. An all new and improved comprehensive index. *Basic Transport Phenomena in Materials Engineering* Manabu Iguchi, Olusegun J. Ilegbusi, 2013-09-12 This book presents the basic theory and experimental techniques of transport phenomena in materials processing operations. Such fundamental knowledge is highly useful for researchers and engineers in the field to improve the efficiency of conventional processes or develop novel technology. Divided into four parts, the book comprises 11 chapters describing the principles of momentum transfer, heat transfer, and mass transfer in single phase and multiphase systems. Each chapter includes examples with solutions and exercises to facilitate students learning. Diagnostic problems are also provided at the end of each part to assess students' comprehension of the material. The book is aimed primarily at students in materials science and engineering. However, it can also serve as a useful reference text in chemical engineering as well as an introductory transport phenomena text in mechanical engineering. In addition, researchers and engineers engaged in materials processing operations will find the material useful for the design of experiments and mathematical models in transport phenomena. This volume contains unique features not usually found in traditional transport phenomena texts. It integrates experimental techniques and theory, both of which are required to adequately solve the inherently complex problems in materials processing operations. It takes a holistic approach by considering both single and multiphase systems augmented with specific practical examples. There is a discussion of flow and heat transfer in microscale systems which is relevant to the design of modern processes such as fuel cells and compact heat exchangers. Also described are auxiliary relationships including turbulence modeling, interfacial phenomena, rheology, and particulate systems which are critical to many materials processing operations. Computer Modelling of Heat and Fluid Flow in Materials Processing C.P. Hong, 2019-04-23 The understanding and control of transport

phenomena in materials processing play an important role in the improvement of conventional processes and in the development of new techniques. Computer modeling of these phenomena can be used effectively for this purpose. Although there are several books in the literature covering the analysis of heat transfer, *Modeling in Transport Phenomena* by Ismail Tosun (2007-07-17) is a notable work. The second edition of *Modeling in Transport Phenomena* presents and clearly explains with example problems the basic concepts and their applications to fluid flow, heat transfer, mass transfer, chemical reaction engineering, and thermodynamics. A balanced approach is presented between analysis and synthesis; students will understand how to use the solution in engineering analysis. Systematic derivations of the equations and the physical significance of each term are given in detail for students to easily understand and follow up the material. There is a strong incentive in science and engineering to understand why a phenomenon behaves the way it does. For this purpose, a complicated real-life problem is transformed into a mathematically tractable problem while preserving the essential features of it. Such a process known as mathematical modeling requires understanding of the basic concepts. This book teaches students these basic concepts and shows the similarities between them. Answers to all problems are provided, allowing students to check their solutions. Emphasis is on how to get the model equation representing a physical phenomenon and not on exploiting various numerical techniques to solve mathematical equations. A balanced approach is presented between analysis and synthesis; students will understand how to use the solution in engineering analysis. Systematic derivations of the equations as well as the physical significance of each term are given in detail. Many more problems and examples are given than in the first edition; answers provided.

Decoding **Transport Phenomena**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Transport Phenomena**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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