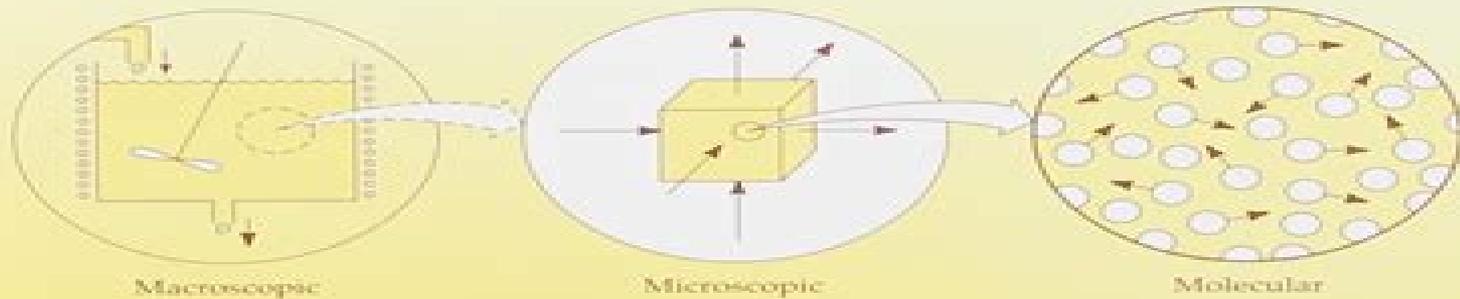


Transport Phenomena

Revised
Second Edition



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

Transport Phenomena

John C. Slattery



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**

Advanced Transport Phenomena John C. Slattery, 1999-07-13 The term transport phenomena describes the fundamental processes of momentum energy and mass transfer This text provides a thorough discussion of transport phenomena laying the foundation for understanding a wide variety of operations used by chemical engineers The book is arranged in three

parallel parts covering the major topics of momentum energy and mass transfer Each part begins with the theory followed by illustrations of the way the theory can be used to obtain fairly complete solutions and concludes with the four most common types of averaging used to obtain approximate solutions A broad range of technologically important examples as well as numerous exercises are provided throughout the text Based on the author s extensive teaching experience a suggested lecture outline is also included This book is intended for first year graduate engineering students it will be an equally useful reference for researchers in this field

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 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 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

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 Problem Solver, 1984 **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.

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 are included, separately designed to enhance understanding and reinforce key concepts. End of chapter summaries.

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

Transport Phenomena in Medicine and Biology Marshall Min-Shing Lih, 1975 A Wiley Interscience publication

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 Kármán, 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.

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 tra

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

Transport Phenomena: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. Transport Phenomena : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Transport Phenomena : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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