

Mass Transfer Nptel

D. P. Mishra

Mass Transfer-II K A Gavhane,2015 Distillation - Liquid-Liquid Extraction - Adsorption and Ion Exchange - Leaching - Crystallisation - Drying - Appendix - I

PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES BINAY K. DUTTA,2007-01-21 This textbook is targetted to undergraduate students in chemical engineering, chemical technology, and biochemical engineering for courses in mass transfer, separation processes, transport processes, and unit operations. The principles of mass transfer, both diffusional and convective have been comprehensively discussed. The application of these principles to separation processes is explained. The more common separation processes used in the chemical industries are individually described in separate chapters. The book also provides a good understanding of the construction, the operating principles, and the selection criteria of separation equipment. Recent developments in equipment have been included as far as possible. The procedure of equipment design and sizing has been illustrated by simple examples. An overview of different applications and aspects of membrane separation has also been provided. 'Humidification and water cooling', necessary in every process indus-try, is also described. Finally, elementary principles of 'unsteady state diffusion' and mass transfer accompanied by a chemical reaction are covered. SALIENT FEATURES : • A balanced coverage of theoretical principles and applications. • Important recent developments in mass transfer equipment and practice are included. • A large number of solved problems of varying levels of complexities showing the applications of the theory are included. • Many end-chapter exercises. • Chapter-wise multiple choice questions. • An Instructors manual for the teachers.

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 than 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.

Process Equipment and Plant Design Subhabrata Ray, Gargi Das, 2020-05-29 Process Equipment and Plant Design: Principles and Practices takes a holistic approach towards process design in the chemical engineering industry, dealing with the design of individual process equipment and its configuration as a complete functional system. Chapters cover typical heat and mass transfer systems and equipment included in a chemical engineering curriculum, such as heat exchangers, heat exchanger networks, evaporators, distillation, absorption, adsorption, reactors and more. The authors expand on additional topics such as industrial cooling systems, extraction, and topics on process utilities, piping and hydraulics, including instrumentation and safety basics that supplement the equipment design procedure and help to arrive at a complete plant design. The chapters are arranged in sections pertaining to heat and mass transfer processes, reacting systems, plant hydraulics and process vessels, plant auxiliaries, and engineered safety as well as a separate chapter showcasing examples of process design in complete plants. This comprehensive reference bridges the gap between industry and academia, while exploring best practices in design, including relevant theories in process design making this a valuable primer for fresh graduates and professionals working on design projects in the industry. - Serves as a consolidated resource for process and plant design, including process utilities and engineered safety - Bridges the gap between industry and academia by including practices in design and summarizing relevant theories - Presents design solutions as a complete functional system and not merely the design of major equipment - Provides design procedures as pseudo-code/flow-chart, along with practical

considerations

Equilibrium Staged Separations Phillip C. Wankat, 2007

Simultaneous Mass Transfer and Chemical Reactions in Engineering Science Bertram K. C. Chan, 2023-02-01

Simultaneous Mass Transfer and Chemical Reactions in Engineering Science A comprehensive look at the basic science of diffusional process and mass transfer Mass transfer as a principle is an essential part of numerous unit operations in biomolecular, chemical, and process engineering; crystallization, distillation, and membrane separation processes, for example, use this important method. Given this significance - particularly in engineering design where these processes occur - understanding the design and analysis of such unit operations must begin with a basic understanding of how simultaneous mass transfer and the chemical reactions that influence these occurrences. It is also vital to be aware of the most up-to-date technologies for analyzing and predicting the phenomena. Given the significance of this process, Simultaneous Mass Transfer and Chemical Reactions in Engineering Science is an important resource as it introduces the reader to the complex subject of simultaneous mass transfer with biochemical and chemical reactions and gives them the tools to develop an applicable design. Analyzing the systems of simultaneous mass transfer and reactions is at the core of this book, as all known design approaches are carefully examined and compared. The volume also provides the reader with a working knowledge of the latest technologies - with a special focus on the open-sourced computer programming language R - and how these tools are an essential resource in quantitative assessment in analysis models. Simultaneous Mass Transfer and Chemical Reactions in Engineering Science provides a working knowledge of the latest information on simultaneous mass transfer and reactions by focusing on the analysis of this process, as well as discussing the existence and distinctive quality of the solutions to the Simultaneous Mass Transfer and Chemical Reactions in Engineering Science readers will also find: A theoretical basis of each design model that is carefully stated, compared, and assessed Carefully developed and established Existence and Uniqueness Theorems for a general design model Comprehensive coverage of how the programming language R may be used to analyze models Numerous examples and case studies that provide a working knowledge of simultaneous mass transfer and reactions Simultaneous Mass Transfer and Chemical Reactions in Engineering Science is a useful reference for students in chemical engineering, biotechnology, or chemistry, as well as professional process and chemical engineers.

FUNDAMENTALS OF COMBUSTION D. P. Mishra, 2007-12-19 Designed for both undergraduate and postgraduate students of mechanical, aerospace, chemical and metallurgical engineering, this compact and well-knitted textbook provides a sound conceptual basis in fundamentals of combustion processes, highlighting the basic principles of natural laws. In the initial part of the book, chemical thermodynamics, kinetics, and conservation equations are reviewed extensively with a view to preparing students to assimilate quickly intricate aspects of combustion covered in later chapters. Subsequently, the book provides extensive treatments of 'pre-mixed laminar flame', and 'gaseous diffusion flame', emphasizing the practical aspects

of these flames. Besides, liquid droplet combustion under quiescent and convective environment is covered in the book. Simplified analysis of spray combustion is carried out which can be used as a design tool. An extensive treatment on the solid fuel combustion is also included. Emission combustion systems, and how to control emission from them using the latest techniques, constitute the subject matter of the final chapter. Appropriate examples are provided throughout to foster better understanding of the concepts discussed. Chapter-end review questions and problems are included to reinforce the learning process of students.

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.

Heat Transfer S.P. Venkateshan, 2021-03-10 The book covers various topics of heat transfer. It explains and analyzes several techniques and modes of heat transfer such as conduction in stationary media, convection in moving media and also by radiation. It is primarily a text book useful for undergraduate and postgraduate students. The book should also interest practicing engineers who wish to refresh their knowledge in the field. The book presents the various topics in a systematic way starting from first principles. The topics are developed to a fairly advanced level towards the end of each chapter. Several worked examples illustrate the engineering applications of the basic modeling tools developed in the text. The exercises at the end of the book are arranged chapter wise and challenge the reader to tackle typical real-life problems in heat transfer. This book will be of potential use for students of mechanical engineering, chemical engineering and metallurgy in most engineering colleges.

Microscale Flow and Heat Transfer Amit Agrawal, Hari Mohan Kushwaha, Ravi Sudam Jadhav, 2019-05-25 This book

covers concepts and the latest developments on microscale flow and heat transfer phenomena involving a gas. The book is organised in two parts: the first part focuses on the fluid flow and heat transfer characteristics of gaseous slip flows. The second part presents modelling of such flows using higher-order continuum transport equations. The Navier-Stokes equations based solution is provided to various problems in the slip regime. Several interesting characteristics of slip flows along with useful empirical correlations are documented in the first part of the book. The examples bring out the failure of the conventional equations to adequately describe various phenomena at the microscale. Thereby the readers are introduced to higher order continuum transport (Burnett and Grad) equations, which can potentially overcome these limitations. A clear and easy to follow step by step derivation of the Burnett and Grad equations (superset of the Navier-Stokes equations) is provided in the second part of the book. Analytical solution of these equations, the latest developments in the field, along with scope for future work in this area are also brought out. Presents characteristics of flow in the slip and transition regimes for a clear understanding of microscale flow problems; Provides a derivation of Navier-Stokes equations from microscopic viewpoint; Features a clear and easy to follow step-by-step approach to derive Burnett and Grad equations; Describes a complete compilation of few known exact solutions of the Burnett and Grad equations, along with a discussion of the solution aided with plots; Introduces the variants of the Navier-Stokes, Burnett and Grad equations, including the recently proposed Onsager-Burnett and O13 moment equations.

Elements of Heat and Mass Transfer Vijay Gupta, 1995 This Text Is A Thoroughly Revised And Enlarged Edition Of The Book Heat And Mass Transfer Which Was Very Well Received By The Readers. The Aim Of This Edition Remains The Same As That Of The First Edition: To Guide The Students Towards A Sound Physical Basis Of Obtaining First Estimates Of The Varied Heat And Mass Transfer Problem That They Are Likely To Encounter. For This Purpose The Book Develops The Physical Principles With A Fairly High Level Of Rigour, But At The Same Time Devotes Considerable Attention To The Techniques Of Approximations And Modelling Of Complex Physical Situations So That They Become Amenable To Alimentary Methods Of Analysis. Some Of The Novel Features Of This Book Are: It Brings Together In Chapter 1 An Overview Of The Subject, Exposing The Reader To The Wide Variety Of Contexts In Which Heat And Mass Transfer Problems Arise In Engineering Practice; It Provides Very Early The Technique Of Normalizing The Governing Equations And Boundary Conditions To Be Able To Meaningfully Talk Of The Approximations Resorted To In Various Alimentary Techniques; It Introduces The Essence Of The Convection Phenomenon Through One Case Where It Is Brought Out The Best With Least Clouding By Mathematics, Namely, Transpiration Cooling; It Treats In Chapter 5 The Essentials Of Convection Including The Concept Of Boundary Layer And Dimensionless Correlations At A Lowermathematical Level Than It Is Traditionally Done; It Brings Out The Concept Of Full-Development With Physical Insights; And It Consciously Attempts To Bring Out The Similarity Between Heat And Mass Transfer And Uses The Same Symbols With The Hope That The Additional Efforts To Learn Mass Transfer Will Be

Considerably Reduced.

A TEXTBOOK OF CHEMICAL ENGINEERING THERMODYNAMICS K. V. NARAYANAN, 2013-01-11 Designed as an undergraduate-level textbook in Chemical Engineering, this student-friendly, thoroughly class-room tested book, now in its second edition, continues to provide an in-depth analysis of chemical engineering thermodynamics. The book has been so organized that it gives comprehensive coverage of basic concepts and applications of the laws of thermodynamics in the initial chapters, while the later chapters focus at length on important areas of study falling under the realm of chemical thermodynamics. The reader is thus introduced to a thorough analysis of the fundamental laws of thermodynamics as well as their applications to practical situations. This is followed by a detailed discussion on relationships among thermodynamic properties and an exhaustive treatment on the thermodynamic properties of solutions. The role of phase equilibrium thermodynamics in design, analysis, and operation of chemical separation methods is also deftly dealt with. Finally, the chemical reaction equilibria are skillfully explained. Besides numerous illustrations, the book contains over 200 worked examples, over 400 exercise problems (all with answers) and several objective-type questions, which enable students to gain an in-depth understanding of the concepts and theory discussed. The book will also be a useful text for students pursuing courses in chemical engineering-related branches such as polymer engineering, petroleum engineering, and safety and environmental engineering. New to This Edition • More Example Problems and Exercise Questions in each chapter • Updated section on Vapour-Liquid Equilibrium in Chapter 8 to highlight the significance of equations of state approach • GATE Questions up to 2012 with answers

Chemical Reaction Engineering II,

Aspen Plus Kamal I. M. Al-Malah, 2022-10-12 ASPEN PLUS® Comprehensive resource covering Aspen Plus V12.1 and demonstrating how to implement the program in versatile chemical process industries Aspen Plus®: Chemical Engineering Applications facilitates the process of learning and later mastering Aspen Plus®, the market-leading chemical process modeling software, with step-by-step examples and succinct explanations. The text enables readers to identify solutions to various process engineering problems via screenshots of the Aspen Plus® platforms in parallel with the related text. To aid in information retention, the text includes end-of-chapter problems and term project problems, online exam and quiz problems for instructors that are parametrized (i.e., adjustable) so that each student will have a standalone version, and extra online material for students, such as Aspen Plus®-related files, that are used in the working tutorials throughout the entire textbook. The second edition of Aspen Plus®: Chemical Engineering Applications includes information on: Various new features that were embedded into Aspen Plus V12.1 and existing features which have been modified Aspen Custom Modeler (ACM), covering basic features to show how to merge customized models into Aspen Plus simulator New updates to process dynamics and control and process economic analysis since the first edition was published Vital areas of interest in relation to

the software, such as polymerization, drug solubility, solids handling, safety measures, and energy saving For chemical engineering students and industry professionals, the second edition of Aspen Plus®: Chemical Engineering Applications is a key resource for understanding Aspen Plus and the new features that were added in version 12.1 of the software. Many supplementary learning resources help aid the reader with information retention.

Chemical Engineering Design Gavin Towler,Ray Sinnott,2012-01-25 Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: - Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. - New discussion of conceptual plant design, flowsheet development and revamp design - Significantly increased coverage of capital cost estimation, process costing and economics - New chapters on equipment selection, reactor design and solids handling processes - New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography - Increased coverage of batch processing, food, pharmaceutical and biological processes - All equipment chapters in Part II revised and updated with current information - Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards - Additional worked examples and homework problems - The most complete and up to date coverage of equipment selection - 108 realistic commercial design projects from diverse industries - A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website - Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

Heat Transfer M. Necati Özişik,1985-01-01

Molecular Thermodynamics of Fluid-Phase Equilibria John M. Prausnitz, Rudiger N. Lichtenthaler, Edmundo Gomes de Azevedo, 1998-10-22 The classic guide to mixtures, completely updated with new models, theories, examples, and data. Efficient separation operations and many other chemical processes depend upon a thorough understanding of the properties of gaseous and liquid mixtures. *Molecular Thermodynamics of Fluid-Phase Equilibria*, Third Edition is a systematic, practical guide to interpreting, correlating, and predicting thermodynamic properties used in mixture-related phase-equilibrium calculations. Completely updated, this edition reflects the growing maturity of techniques grounded in applied statistical thermodynamics and molecular simulation, while relying on classical thermodynamics, molecular physics, and physical chemistry wherever these fields offer superior solutions. Detailed new coverage includes: Techniques for improving separation processes and making them more environmentally friendly. Theoretical concepts enabling the description and interpretation of solution properties. New models, notably the lattice-fluid and statistical associated-fluid theories. Polymer solutions, including gas-polymer equilibria, polymer blends, membranes, and gels. Electrolyte solutions, including semi-empirical models for solutions containing salts or volatile electrolytes. Coverage also includes: fundamentals of classical thermodynamics of phase equilibria; thermodynamic properties from volumetric data; intermolecular forces; fugacities in gas and liquid mixtures; solubilities of gases and solids in liquids; high-pressure phase equilibria; virial coefficients for quantum gases; and much more. Throughout, *Molecular Thermodynamics of Fluid-Phase Equilibria* strikes a perfect balance between empirical techniques and theory, and is replete with useful examples and experimental data. More than ever, it is the essential resource for engineers, chemists, and other professionals working with mixtures and related processes.

Combustion Technology Vasudevan Raghavan, 2016-08-01 A comprehensive review of the fundamental aspects of combustion, covering fundamental thermodynamics and chemical kinetics through to practical burners. It provides a detailed analysis of the basic ideas and design characteristics of burners for gaseous, liquid and solid fuels. End of chapter review questions help the reader to evaluate their understanding of both the fundamental as well as the application aspects. Furthermore, a chapter on alternative renewable fuels has been included to bring out the need, characteristics and usage of alternative fuels along with fossil fuels. A section on future trends in fuels and burners is also provided. Several key research articles have been cited in the text and listed in the references.

Fast Fluidization, 1994-12-23 Over the last decade, circulating fluidization or fast fluidization has developed rapidly, superseding standard bubbling fluidization in many applications; for example, fast fluidization provides a better means for controlling emissions from the combustion of high-sulfur fuels and excels when used in boilers in steam plant and power stations. China initiated the study of fast fluidization in the early 1970s. Focusing on the substantial research cultivated in that country, with Kwauk at the leading edge, this latest volume in the *Advances in Chemical Engineering Series* is written in the context of the international state of the art and addresses some of the most vital issues surrounding this fluidization

method.

A Textbook Of Heat Transfer Suhas P. Sukhatme,1996-01-01

The Top Books of the Year Mass Transfer Nptel The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : 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 skillfully 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 intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mass Transfer Nptel : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling 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 engaging 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 brilliant and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Mass Transfer Nptel Introduction

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