

TRANSPORT PHENOMENA

Volume 1

Part I - Basic Concepts in Transport Phenomena

A
U N I F I E D

A P P R O A C H

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A N D

HARRY C. HERSHEY

Transport Phenomena A Unified Approach

Kambiz Vafai



Transport Phenomena A Unified Approach:

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 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

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Brodkey, Harry C Hershey, 1988 *Guidelines for a Unified Approach to Transport Phenomena in Porous Mediums* Y.

Bachmat, American Geophysical Union, 1968 Theory of Macroscopic Systems Cor Ouwerkerk, 2012-12-06 This book deals with the theory of macroscopic systems Traditionally this theory has been fragmented over a number of disciplines like thermodynamics physical transport phenomena sometimes referred to as non equilibrium or irreversible thermodynamics fluid mechanics chemical reaction engineering and heat and power engineering This fragmentation the different approaches followed in presenting theory e g the inductive approach as opposed to the postulational approach in textbooks on thermodynamics many alternative representations of equations and differences in notation make it cumbersome to discern a single coherent theory of macroscopic systems The idea of this book is to present the theory of macroscopic systems as a unified theory with equations strictly developed from a single set of principles and concepts The book is an attempt to bridge gaps between the various disciplines It can serve as a textbook refresher or reference book to students of an advanced level in various disciplines to scientists and to practising engineers working in design and development It provides rigorous

equations and their possible simplifications for use in computer models for scale up or optimisation Topics like exergy analysis and multi component diffusion are included The principles and concepts in the theory of macroscopic systems comprise in addition to the mole and mass balances over a system the balance equations for the fundamental extensive properties momentum energy and entropy as well as the phenomenological laws on asymptotic phase behaviour and molecular transport

A Unified Approach to Transport Phenomena in Porous Media Jacob Bear, Y. Bachmat, Tekhniyon, Makhon tekhnologi le-Yisra'el, Mosad ha-Tekhniyon le-mehkar u-fituah (Haifa, Israel), 1965

Advances in Chemical Engineering, 2008-09-22 The cross fertilization of physico chemical and mathematical ideas has a long historical tradition This volume of *Advances in Chemical Engineering* is almost completely dedicated to a conference on Mathematics in Chemical Kinetics and Engineering MaCKiE 2007 which was held in Houston in February 2007 bringing together about 40 mathematicians chemists and chemical engineers from 10 countries to discuss the application and development of mathematical tools in their respective fields Updates and informs the reader on the latest research findings using original reviews Written by leading industry experts and scholars Reviews and analyzes developments in the field

Integrated Lake-Watershed Acidification Ilwas Project, 1985-12-31 ROBERT A GOLDSTEIN Electric Power Research Institute Environmental Assessment Department P O Box 10412 Palo Alto CA 94303 U S A CARL W CHEN Systech Engineering Inc 3744 Mt Diablo Boulevard Suite 101 Lafayette CA 94549 U S A and STEVEN A GHERINI Tetra Tech Inc 3746 Mt Diablo Boulevard Suite 300 Lafayette CA 94549 U S A Received November 1 1984 revised May 14 1985 Abstract An integrated interdisciplinary intensive study of three forested watersheds in the Adirondack Park region of New York State was started in 1977 to quantify the relationship between the deposition of atmospheric acids and surface water acidity A general mechanistic theory of lake watershed acidification that takes into account the production and consumption of acidity by watershed processes as well as atmospheric inputs of acidity was developed This theory is formulated as a mathematical simulation model Model and data analyses establish the importance of using an integrated ecosystem perspective to assess the vulnerability of surface waters to acidification by acidic deposition The acid base status of surface waters is determined by the interaction of many factors soil hydrologic vegetation geologic climatic atmospheric The absolute and relative contribution of any given factor can be highly variable both geographically and temporally hence lake sensitivity to changes in the quality and quantity of atmospheric deposition is also highly variable

Foaming with Supercritical Fluids Ernesto Di Maio, Salvatore Iannace, Giuseppe Mensitieri, 2021-11-06 Foaming with Supercritical Fluids Volume Nine provides a comprehensive description of the use of supercritical fluids as blowing agents in polymer foaming To this aim the fundamental issues on which the proper design and control of this process are rooted are discussed in detail with specific attention devoted to the theoretical and experimental aspects of sorption thermodynamics of a blowing agent within a polymer the effect of the absorbed blowing agent on the thermal interfacial and rheological properties of the expanding matter and the phase

separation of the gaseous phase and of the related bubble nucleation and growth phenomena Several foaming technologies based on the use of supercritical blowing agents are then described addressing the main issues in the light of the underlying chemical physical phenomena Offers strong fundamentals on polymer properties important on foaming Outlines the use of supercritical fluids for foaming Covers theoretical points of view including foam formation of the polymer gas solution to the setting of the final foam Discusses the several processing technologies and applications **Handbook of Porous Media**

Kambiz Vafai, 2015-06-23 Handbook of Porous Media Third Edition offers a comprehensive overview of the latest theories on flow transport and heat exchange processes in porous media It also details sophisticated porous media models which can be used to improve the accuracy of modeling in a variety of practical applications Featuring contributions from leading experts i

Porous Media Kambiz Vafai, 2010-08-24 Presenting state of the art research advancements Porous Media Applications in Biological Systems and Biotechnology explores innovative approaches to effectively apply existing porous media technologies to biomedical applications In each peer reviewed chapter world class scientists and engineers collaborate to address significant problems and d

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

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Bulletin of the American Mathematical Society American Mathematical Society, 1961

Theoretical Chemical Engineering Abstracts, 1984

Fundamentals of Microelectronics Processing Hong H. Lee, 1990

Process Modeling, Simulation, and Control for Chemical Engineers William L. Luyben, 1990 The purpose of this book is to convey to undergraduate students an understanding of those areas of process control that all chemical engineers need to know The presentation is concise readable and restricted to only essential elements The methods presented have been successfully applied in industry to solve real problems Analysis of closedloop dynamics in the time Laplace frequency and sample data domains are covered Designing simple regulatory control systems for multivariable processes is discussed The practical aspects of process control are presented sizing control valves tuning controllers developing control structures and

considering interaction between plant design and control Practical simple identification methods are covered

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