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David C. Venerus, Hans Christian Öttinger

Transport Phenomena in Biological Systems George A. Truskey, Fan Yuan, David F. Katz, 2004-12-01

Transport Phenomena in Biological Systems George A. Truskey, Fan Yuan, David F. Katz, 2009 For one-semester, advanced undergraduate/graduate courses in Biotransport Engineering. Presenting engineering fundamentals and biological applications in a unified way, this text provides students with the skills necessary to develop and critically analyze models of biological transport and reaction processes. It covers topics in fluid mechanics, mass transport, and biochemical interactions, with engineering concepts motivated by specific biological problems.

Transport Phenomena in Medicine and Biology Marshall Min-Shing Lih, 1975

Transport Phenomena and Kinetic Theory Carlo Cercignani, Ester Gabetta, 2007-12-03 The study of kinetic equations related to gases, semiconductors, photons, traffic flow, and other systems has developed rapidly in recent years because of its role as a mathematical tool in areas such as engineering, meteorology, biology, chemistry, materials science, nanotechnology, and pharmacy. Written by leading specialists in their respective fields, this book presents an overview of recent developments in the field of mathematical kinetic theory with a focus on modeling complex systems, emphasizing both mathematical properties and their physical meaning. *Transport Phenomena and Kinetic Theory* is an excellent self-study reference for graduate students, researchers, and practitioners working in pure and applied mathematics, mathematical physics, and engineering. The work may be used in courses or seminars on selected topics in transport phenomena or applications of the Boltzmann equation.

Basic Transport Phenomena in Biomedical Engineering Ronald L. Fournier, 2017-08-07 This will be a substantial revision of a good selling text for upper division/first graduate courses in biomedical transport phenomena, offered in many departments of biomedical and chemical engineering. Each chapter will be updated accordingly, with new problems and examples incorporated where appropriate. A particular emphasis will be on new information related to tissue engineering and organ regeneration. A key new feature will be the inclusion of complete solutions within the body of the text, rather than in a separate solutions manual. Also, Matlab will be incorporated for the first time with this Fourth Edition.

Modeling Transport Phenomena in Porous Media with Applications Malay K. Das, Partha P. Mukherjee, K. Muralidhar, 2017-11-21 This book is an ensemble of six major chapters, an introduction, and a closure on modeling transport

phenomena in porous media with applications. Two of the six chapters explain the underlying theories, whereas the rest focus on new applications. Porous media transport is essentially a multi-scale process. Accordingly, the related theory described in the second and third chapters covers both continuum- and meso-scale phenomena. Examining the continuum formulation imparts rigor to the empirical porous media models, while the mesoscopic model focuses on the physical processes within the pores. Porous media models are discussed in the context of a few important engineering applications. These include biomedical problems, gas hydrate reservoirs, regenerators, and fuel cells. The discussion reveals the strengths and weaknesses of existing models as well as future research directions.

Transport Phenomena and Living Systems Edwin N. Lightfoot, 1973

Continuum Analysis of Biological Systems G.K. Suraishkumar, 2014-07-08 This book addresses the analysis, in the continuum regime, of biological systems at various scales, from the cellular level to the industrial one. It presents both fundamental conservation principles (mass, charge, momentum and energy) and relevant fluxes resulting from appropriate driving forces, which are important for the analysis, design and operation of biological systems. It includes the concept of charge conservation, an important principle for biological systems that is not explicitly covered in any other book of this kind. The book is organized in five parts: mass conservation; charge conservation; momentum conservation; energy conservation and multiple conservations simultaneously applied. All mathematical aspects are presented step by step, allowing any reader with a basic mathematical background (calculus, differential equations, linear algebra, etc.) to follow the text with ease. The book promotes an intuitive understanding of all the relevant principles and in so doing facilitates their application to practical issues related to design and operation of biological systems. Intended as a self-contained textbook for students in biotechnology and in industrial, chemical and biomedical engineering, this book will also represent a useful reference guide for professionals working in the above-mentioned fields.

Principles and Models of Biological Transport Morton H. Friedman, 2012-12-06 This text is designed for a first course in biological mass transport, and the material in it is presented at a level that is appropriate to advanced undergraduates or early graduate level students. Its orientation is somewhat more physical and mathematical than a biology or standard physiology text, reflecting its origins in a transport course that I teach to undergraduate (and occasional graduate) biomedical engineering students in the Whiting School of Engineering at Johns Hopkins. The audience for my course - and presumably for this text - also includes chemical engineering undergraduates concentrating in biotechnology, and graduate students in biophysics. The organization of this book differs from most texts that attempt to present an engineering approach to biological transport. What distinguishes biological transport from other mass transfer processes is the fact that biological transport is biological. Thus, we do not start with the engineering principles of mass transport (which are well presented elsewhere) and then seek biological applications of these principles; rather, we begin with the biological

processes themselves, and then develop the tools that are needed to describe them. As a result, more physiology is presented in this text than is often found in books dealing with engineering applications in the life sciences.

Mass Transfer in Biological Systems American Institute of Chemical Engineers, 1970

A Modern Course in Transport Phenomena David C. Venerus, Hans Christian Öttinger, 2018-03-15 Integrating nonequilibrium thermodynamics and kinetic theory, this unique text presents a novel approach to the subject of transport phenomena.

Modeling Life Alan Garfinkel, Jane Shevtsov, Yina Guo, 2017-09-06 This book develops the mathematical tools essential for students in the life sciences to describe interacting systems and predict their behavior. From predator-prey populations in an ecosystem, to hormone regulation within the body, the natural world abounds in dynamical systems that affect us profoundly. Complex feedback relations and counter-intuitive responses are common in nature; this book develops the quantitative skills needed to explore these interactions. Differential equations are the natural mathematical tool for quantifying change, and are the driving force throughout this book. The use of Euler's method makes nonlinear examples tractable and accessible to a broad spectrum of early-stage undergraduates, thus providing a practical alternative to the procedural approach of a traditional Calculus curriculum. Tools are developed within numerous, relevant examples, with an emphasis on the construction, evaluation, and interpretation of mathematical models throughout. Encountering these concepts in context, students learn not only quantitative techniques, but how to bridge between biological and mathematical ways of thinking. Examples range broadly, exploring the dynamics of neurons and the immune system, through to population dynamics and the Google PageRank algorithm. Each scenario relies only on an interest in the natural world; no biological expertise is assumed of student or instructor. Building on a single prerequisite of Precalculus, the book suits a two-quarter sequence for first or second year undergraduates, and meets the mathematical requirements of medical school entry. The later material provides opportunities for more advanced students in both mathematics and life sciences to revisit theoretical knowledge in a rich, real-world framework. In all cases, the focus is clear: how does the math help us understand the science?

Nonequilibrium Thermodynamics Yasar Demirel, 2013-12-16 Natural phenomena consist of simultaneously occurring transport processes and chemical reactions. These processes may interact with each other and may lead to self-organized structures, fluctuations, instabilities, and evolutionary systems. *Nonequilibrium Thermodynamics, Third Edition* emphasizes the unifying role of thermodynamics in analyzing the natural phenomena. This third edition updates and expands on the first and second editions by focusing on the general balance equations for coupled processes of physical, chemical, and biological systems. The new edition contains a new chapter on stochastic approaches to include the statistical thermodynamics, mesoscopic nonequilibrium thermodynamics, fluctuation theory, information theory, and modeling the coupled biochemical systems in thermodynamic analysis. This new addition also comes with more examples and practice problems. Informs and

updates on all the latest developments in the field Contributions from leading authorities and industry experts A useful text for seniors and graduate students from diverse engineering and science programs to analyze some nonequilibrium, coupled, evolutionary, stochastic, and dissipative processes Highlights fundamentals of equilibrium thermodynamics, transport processes and chemical reactions Expands the theory of nonequilibrium thermodynamics and its use in coupled transport processes and chemical reactions in physical, chemical, and biological systems Presents a unified analysis for transport and rate processes in various time and space scales Discusses stochastic approaches in thermodynamic analysis including fluctuation and information theories Has 198 fully solved examples and 287 practice problems An Instructor Resource containing the Solution Manual can be obtained from the author: ydemirel2@unl.edu

Advanced Transport Phenomena L. Gary Leal, 2007-06-18 *Advanced Transport Phenomena* is ideal as a graduate textbook. It contains a detailed discussion of modern analytic methods for the solution of fluid mechanics and heat and mass transfer problems, focusing on approximations based on scaling and asymptotic methods, beginning with the derivation of basic equations and boundary conditions and concluding with linear stability theory. Also covered are unidirectional flows, lubrication and thin-film theory, creeping flows, boundary layer theory, and convective heat and mass transport at high and low Reynolds numbers. The emphasis is on basic physics, scaling and nondimensionalization, and approximations that can be used to obtain solutions that are due either to geometric simplifications, or large or small values of dimensionless parameters. The author emphasizes setting up problems and extracting as much information as possible short of obtaining detailed solutions of differential equations. The book also focuses on the solutions of representative problems. This reflects the book's goal of teaching readers to think about the solution of transport problems.

Transport and Rate Phenomena in Biological Systems Edward F. Leonard, 2010-01

Complex Fluids in Biological Systems Saverio E. Spagnolie, 2014-11-27 This book serves as an introduction to the continuum mechanics and mathematical modeling of complex fluids in living systems. The form and function of living systems are intimately tied to the nature of surrounding fluid environments, which commonly exhibit nonlinear and history dependent responses to forces and displacements. With ever-increasing capabilities in the visualization and manipulation of biological systems, research on the fundamental phenomena, models, measurements, and analysis of complex fluids has taken a number of exciting directions. In this book, many of the world's foremost experts explore key topics such as: Macro- and micro-rheological techniques for measuring the material properties of complex biofluids and the subtleties of data interpretation Experimental observations and rheology of complex biological materials, including mucus, cell membranes, the cytoskeleton, and blood The motility of microorganisms in complex fluids and the dynamics of active suspensions Challenges and solutions in the numerical simulation of biologically relevant complex fluid flows This volume will be accessible to advanced undergraduate and beginning graduate students in engineering, mathematics, biology, and the physical sciences,

but will appeal to anyone interested in the intricate and beautiful nature of complex fluids in the context of living systems.

An Introduction to Fluid Mechanics and Transport Phenomena G. Hauke, 2008-08-26 This book presents the foundations of fluid mechanics and transport phenomena in a concise way. It is suitable as an introduction to the subject as it contains many examples, proposed problems and a chapter for self-evaluation.

Control Theory and Systems Biology Pablo A. Iglesias, Brian P. Ingalls, 2010 A survey of how engineering techniques from control and systems theory can be used to help biologists understand the behavior of cellular systems.

Problems for Biomedical Fluid Mechanics and Transport Phenomena Mark Johnson, C. Ross Ethier, 2014 This unique resource offers over two hundred well-tested bioengineering problems for teaching and examinations. Solutions are available to instructors online.

Biological Process Engineering Arthur T. Johnson, 1998-12-14 A unique, accessible guide to the application of engineering methods to biological systems. Presenting for the first time a practical, design-oriented, interdisciplinary approach to transport phenomena involving biological systems, Biological Process Engineering emphasizes the common aspects of the three main transport processes—fluid flow, heat transfer, and mass transfer. In clear and simple terms, it explores the relevance of these processes to broadly defined biological systems such as the growth of microbes in bioreactors, the leaching of pollutants into groundwater, and the chemistry of food manufacturing. Reaching well beyond standard applications in medicine and the environment to areas of biotechnology, aquaculture, agriculture, and food processing, this book promotes analogical thinking that will lead to creative solutions. While keeping the mathematics to a minimum, it explains principles of effective system modeling and demonstrates a wide variety of problem-solving techniques. Readers will find: * Systems diagrams comparing and contrasting different transport processes * Biological examples for all types of systems, including metabolic pathways, locomotion, reproduction, responses to thermal conditions, and more * Numerous design charts and procedures * An extensive collection of tables of parameter values, not found in any other text. An ideal undergraduate text for biological engineering students taking courses in transport processes, Biological Process Engineering is also an excellent reference for practicing engineers. It introduces the reader to diverse biological phenomena, serves as a stepping-stone to more theoretical topics, and provides important insights into the fast-growing arena of biological engineering.

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