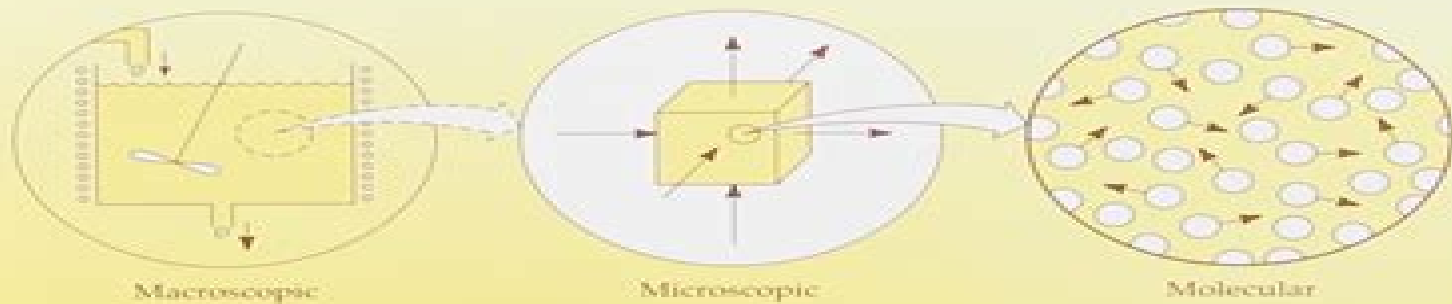


Transport Phenomena

Revised
Second Edition



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

Special Topics In Transport Phenomena Hardcover

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Special Topics in Transport Phenomena G. Astarita, R. Ocone, 2001-12-21 This book is a research monograph on transport phenomena. The topics discussed are often mathematically simple though conceptually complex. The book is written in a colloquial style which a good teacher uses in the classroom. It originates from the author's wealth of teaching experience in this area and incorporates suggestions from colleagues worldwide.

Selected Topics in transport phenomena Robert Byron Bird, 1965

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.

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 *Hydrocarbon Processing*, 1986 Three Plays of Maureen Hunter Hunter, Maureen, 2003 Book is clean and tight No writing in text Like New **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 **Transport Processes in Chemically Reacting Flow Systems** Daniel E. Rosner, 2012-04-30 Introduction to the transport of energy mass and momentum in chemically reacting fluids for graduate or undergraduate students with no prior background in fluid mechanics Solutions to selected exercises *Applied Mechanics Reviews*, 1971 **An Introduction to Transport Phenomena in Materials Engineering** David R. Gaskell, Matthew John M. Krane, 2024-01-24 This book elucidates the important role of conduction convection and radiation heat transfer mass transport in solids and fluids and internal and external fluid flow in the behavior of materials processes These phenomena are critical in materials engineering because of the connection of transport to the evolution and distribution of microstructural properties during processing From making choices in the derivation of fundamental conservation equations to using scaling order of magnitude analysis showing relationships among different phenomena to giving examples of how to represent real systems by simple models the book takes the reader through the fundamentals of transport phenomena applied to materials processing Fully updated this third edition of a classic textbook offers a significant shift from the previous editions in the approach to this subject representing an evolution incorporating the original ideas and extending them to a more comprehensive approach to the topic FEATURES Introduces order of magnitude scaling analysis and uses it to quickly obtain approximate solutions for complicated problems throughout the book Focuses on building models to solve practical problems Adds new sections on non Newtonian flows turbulence and measurement of heat transfer coefficients Offers expanded sections on thermal resistance networks transient heat transfer two phase diffusion mass transfer and flow in porous media Features more homework problems mostly on the analysis of practical problems and new examples from a much broader range of materials classes and processes including metals ceramics polymers and electronic materials Includes homework problems for the review of the mathematics required for a course based on this book and connects the theory represented by mathematics with real world problems This book is aimed at advanced engineering undergraduates and students early in their graduate studies as well as practicing engineers interested in understanding the behavior of heat and mass transfer and fluid flow during materials processing While it is designed primarily for materials engineering education it is a good reference for practicing materials engineers looking for insight into phenomena controlling their processes A solutions manual lecture slides and figure slides are available for qualifying adopting professors Journal of Computational and Theoretical Nanoscience, 2004

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. Selected Topics in transport phenomena, 1965

Choice, 1992 *Transport Processes in Nature Hardback with CD-ROM* William A. Reiners, Kenneth L. Driese, 2004-07-08 A conceptual framework for the study and understanding of the propagation of ecological influences in nature. **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), Subject Guide to Books in Print, 1983 **A Brief Introduction to Fluid Mechanics** Donald F. Young, Bruce R. Munson, Theodore H. Okiishi, Wade W. Huebsch, 2010-11-23 A Brief Introduction to Fluid Mechanics 5th Edition is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of today's student better than the dense encyclopedic manner of traditional texts. This approach helps students connect the math and theory to the physical world and practical applications and apply these connections to solving problems. The text lucidly presents basic analysis techniques and addresses practical concerns and applications such as pipe flow, open channel flow, flow measurement and drag and lift. It offers a strong visual approach with photos, illustrations and videos included in the text, examples and homework problems to emphasize the practical application of fluid mechanics principles. Product Engineering, 1961 Vols for 1955 includes an issue with title Product design handbook issue 1956 Product design digest issue 1957 Design digest issue **Technical Book Review Index**, 1972

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