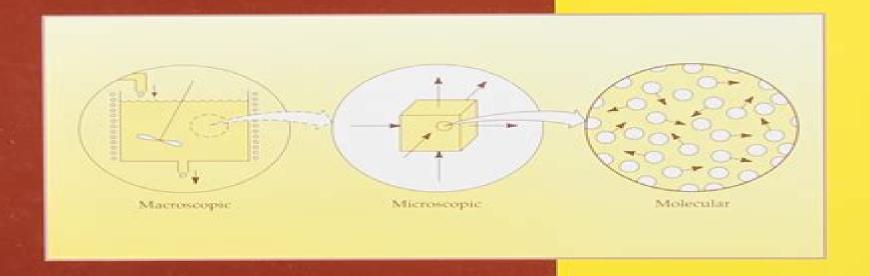
Transport Phenomena

Revised Second Edition



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

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S. PUSHPAVANAM

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Transport Phenomena Robert Byron Bird, 1960 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 Transport Phenomena in Biological Systems: International Version, 2007 **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 Combustion** International Symposium on Transport Phenomena in Combustion, 1996 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 MATHEMATICAL METHODS IN CHEMICAL ENGINEERING S. PUSHPAVANAM, 1998-01-01 This comprehensive well organized and easy to read book presents concepts in a unified framework to establish a similarity in the methods of solutions and analysis of such diverse systems as algebraic equations ordinary differential equations and partial differential equations. The distinguishing feature of the book is the clear focus on analytical methods of solving equations. The text explains how the methods meant to elucidate linear problems can be extended to analyse nonlinear problems. The book also discusses in detail modern concepts like bifurcation theory and chaos To attract engineering students to applied mathematics the author explains the concepts in a clear concise and straightforward manner with the help of examples and analysis The significance of analytical methods and concepts for the engineer scientist interested in numerical applications is clearly brought out Intended as a textbook for the postgraduate students in engineering the book could also be of great help to the research students Marika Torbacke, Åsa Kassman Rudolphi, Elisabet Kassfeldt, 2014-03-10 Those working with tribology often have a background in mechanical engineering while people working with lubricant development have a chemistry chemical engineering background This means they have a tradition of approaching problems in different ways Today's product development puts higher demands on timing and quality requiring collaboration between people with different backgrounds However they can lack understanding of each other's challenges as well as a common language and so this book aims to bridge the gap between these two areas Lubricants Introduction to Properties and Performance provides an easy to understand overview of tribology and lubricant chemistry. The first part of the book is theoretical and provides an introduction to tribological contact friction wear and lubrication as well as the basic concepts regarding properties and the most commonly made analyses on lubricants Base fluids and their properties and common additives used in lubricants are also covered The second part of the book is hands on and introduces the reader to the actual formulations and the evaluation of their performance Different applications and their corresponding lubricant formulations are considered and tribological test methods are discussed Finally used oil characterisation and surface characterisation are covered which give the reader an introduction to different methods of characterising used oils and surfaces respectively Key features Combines chemistry and tribology of lubricants into one unified approach Covers the fundamental theory describing lubricant properties as well as base fluids and additives Contains practical information on the formulations of lubricants and evaluates their performance Considers applications of lubricants in hydraulics gears and combustion engines Lubricants Introduction to Properties and Performance is a comprehensive reference for industry practitioners tribologists lubricant technicians and lubricant chemists etc and is also an excellent source of information for graduate and undergraduate students **Fundamentals and Technology of Combustion** F El-Mahallawy, S. E-Din Habik, 2002-07-10 Fundamentals and Technology of Combustion contains brief descriptions of combustion fundamental processes followed by an extensive survey of the combustion research technology It also includes mathematical combustion modeling of the processes covering mainly premixed and diffusion flames where many chemical and physical processes compete in complex ways for both laminar and turbulent flows The combustion chemistry models that validate experimental data for different fuels are sufficiently accurate to allow confident predictions of the flame characteristics This illustrates a unique bridge between combustion fundamentals and combustion technology which provides a valuable technical reference for many engineers and scientists Moreover the book gives the reader sufficient background of basic engineering sciences such as chemistry thermodynamics heat transfer and fluid mechanics The combustion research and mathematical models fit between small scale laboratory burner flames and large scale industrial boilers furnaces and combustion chambers. The materials have been collected from previous relevant research and some selected papers of the authors and co workers which have been presented mainly in different refereed journals international conferences and symposia thus providing a comprehensive collection Furthermore the book includes some of the many recent general correlations for the characteristics of laminar turbulent premixed and diffusion flames in an easily usable form The authors believe that further progress in optimizing combustion performance and reducing polluting emissions can only be treated through understanding of combustion chemistry PEM Fuel Cells Jasna Jankovic, Jürgen Stumper, 2023-05-22 This book is a comprehensive introduction to the rapidly developing field of modeling and characterization of PEM fuel cells It focuses on i fuel cell performance modeling and performance characterization applicable from single cells to stacks ii fundamental and advanced techniques for structural and compositional characterization of fuel cell components and iii electrocatalyst design Written by experts in this field this book is an invaluable tool for graduate students and professionals

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