







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professor william j thomson emphasizes the formulation of differential equations to describe physical problems helping readers understand what they are doing and why the solutions are either simple separable linear second order or derivable with a differential equation solver book jacket

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 that 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

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

the intestine particularly the small bowel represents a large surface in the adult 2 human approximately 200 m through which the body is exposed to its environment a vigorous substrate exchange takes place across this large surface nutrients and xenobiotics are absorbed from the lumen into the bloodstream or the lymph and simultaneously the same types of substrate pass back into the lumen the luminal surface of the intestine is lined with a leaky epithelium thus the passage of the substrates in either direction proceeds via both transcellular and intercellular routes simple and carrier mediated diffusion active transport pinocytosis phagocytosis and persorption are all involved in this passage across the intestinal wall the term intestinal permeation refers to the process of passage of various substances across the gut wall either from the lumen into the blood or lymph or in the opposite direction permeability is the condition of the gut which governs the rate of this complex two way passage the pharmacologist's interest in the problem of intestinal permeation is twofold on the one hand this process determines the bioavailability of drugs and contributes significantly to the pharmacokinetics and toxicokinetics of xenobiotics on the other hand the pharmacodynamic effects of many drugs are manifested in a significant alteration of the physiological process of intestinal permeation

an introduction to the area of condensed matter in a nutshell this textbook covers the standard topics including crystal structures energy bands phonons optical properties ferroelectricity superconductivity and magnetism

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

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