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Analysis of Transport Phenomena, Second Edition, provides a unified treatment of momentum, heat, and mass transfer, emphasizing the concepts and analytical techniques that apply to these transport processes. The second edition has been revised to reinforce the progression from simple to complex topics and to better introduce the applied mathematics that is needed both to understand classical results and to model novel systems. A common set of formulation, simplification, and solution methods is applied first to heat or mass transfer in stationary media and then to fluid mechanics, convective heat or mass transfer, and systems involving various kinds of coupled fluxes. FEATURES: * Explains classical methods and results, preparing students for engineering practice and more advanced study or research * Covers everything from heat and mass transfer in stationary media to fluid mechanics, free convection, and turbulence * Improved organization, including the establishment of a more integrative approach * Emphasizes concepts and analytical techniques that apply to all transport processes * Mathematical techniques are introduced more gradually to provide students with a better foundation for more complicated topics discussed in later chapters

Deen's first edition has served as an ideal text for graduate level transport courses within chemical engineering and related disciplines. It has successfully communicated the fundamentals of transport processes to students with its clear presentation and unified treatment of momentum, heat, and mass transfer, and its emphasis on the concepts and analytical techniques that apply to all of these transport processes. This text includes distinct features such as mathematically self-contained discussions and a clear, thorough discussion of scaling principles and dimensional analysis. This new edition offers a more integrative approach, covering thermal conduction and diffusion before fluid mechanics, and introducing mathematical techniques more gradually, to provide students with a better foundation for more advanced problems later on. It also provides a broad range of new, real-world examples and exercises, which reflects the current shifts of emphasis within chemical engineering practice and research to biological applications, microsystem technologies, membranes, thin films, and interfacial phenomena. Finally, this edition includes a new appendix with a concise review of how to solve the differential equations most commonly encountered transport problems.

Analysis of Transport Phenomena is intended mainly as a text for graduate-level courses in transport phenomena for chemical engineers. Among the analytical methods discussed are scaling, similarity, perturbation, and finite Fourier transform techniques. The physical topics include conduction and diffusion in stationary media, fluid mechanics, forced- and free-convection heat and mass transfer, and multicomponent energy and mass transfer.

Designed for introductory undergraduate courses in fluid mechanics for chemical engineers, this stand-alone textbook illustrates the fundamental concepts and analytical strategies in a rigorous and systematic, yet mathematically accessible manner. Using both traditional and novel applications, it examines key topics such as viscous stresses, surface tension, and the microscopic analysis of incompressible flows which enables students to understand what is important physically in a novel situation and how to use such insights in modeling. The many modern worked examples and end-of-chapter problems provide calculation practice, build confidence in analyzing physical systems, and help develop engineering judgment. The book also features a self-contained summary of the mathematics needed to understand vectors and tensors, and explains solution methods for partial differential equations. Including a full solutions manual for instructors available at www.cambridge.org/deen, this balanced textbook is the ideal resource for a one-semester course.

Integrated, modern approach to transport phenomena for graduate students, featuring examples and computational solutions to develop practical problem-solving skills.

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.

The term 'transport phenomena' describes the fundamental processes of momentum, energy, and mass transfer. This text provides a thorough discussion of transport phenomena, laying the foundation for understanding a wide variety of operations used by chemical engineers. The book is arranged in three parallel parts covering the major topics of momentum, energy, and mass transfer. Each part begins with the theory, followed by illustrations of the way the theory can be used to obtain fairly complete solutions, and concludes with the four most common types of averaging used to obtain approximate solutions. A broad range of technologically important examples, as well as numerous exercises, are provided throughout the text. Based on the author's extensive teaching experience, a suggested lecture outline is also included. This book is intended for first-year graduate engineering students; it will be an equally useful reference for researchers in this field.

This advanced text presents a unique approach to studying transport phenomena. Bringing together concepts from both chemical engineering and physics, it makes extensive use of nonequilibrium thermodynamics, discusses kinetic theory, and sets out the tools needed to describe the physics of interfaces and boundaries. More traditional topics such as diffusive and convective transport of momentum, energy and mass are also covered. This is an ideal text for advanced courses in transport phenomena, and for researchers looking to expand their knowledge of the subject. The book also includes: • Novel applications such as complex fluids, transport at interfaces and biological systems, • Approximately 250 exercises with solutions (included separately) designed to enhance understanding and reinforce key concepts, • End-of-chapter summaries.

The past, present, and future of green chemistry and greenengineering From college campuses to corporations, the past decade witnesseda rapidly growing interest in understanding sustainable chemistryand engineering. Green Chemistry and Engineering: A PracticalDesign Approach integrates the two disciplines into a singlestudy tool for students and a practical guide for working chemistsand engineers. In Green Chemistry and Engineering, theauthors—each highly experienced in implementing greenchemistry and engineering programs in industrialsettings—provide the bottom-line thinking required to notonly bring sustainable chemistry and engineering closer together,but to also move business towards more sustainable practices andproducts. Detailing an integrated, systems-oriented approach thatbridges both chemical syntheses and manufacturing processes, thisinvaluable reference covers: Green chemistry and green engineering in the movement towardsustainability Designing greener, safer chemical synthesis Designing greener, safer chemical manufacturing processes Looking beyond current processes to a lifecycle thinkingperspective Trends in chemical processing that may lead to more sustainablepractices The authors also provide real-world examples and exercises topromote further thought and discussion. The EPA defines green chemistry as the design of chemicalproducts and processes that reduce or eliminate the use orgeneration of hazardous substances. Green engineering is describedas the design, commercialization, and use of products and processessthat are feasible and economical while minimizing both thegeneration of pollution at the source and the risk to human healthand the environment. While there is no shortage of books on eitherdiscipline, Green Chemistry and Engineering is the first totreally integrate the two.

Applications of numerical mathematics and scientific computing to chemical engineering.

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