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# Advanced Transport Phenomena

Fluid Mechanics and Convective Transport Processes



L. Gary Leal

# Advanced Transport Phenomena Fluid Mechanics And Convective Transport Processes

**L. Gary Leal**



## **Advanced Transport Phenomena Fluid Mechanics And Convective Transport Processes:**

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Slattery,1999-07-13 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

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**Multiphase Flows** Roberto Mauri, 2023-06-12 This textbook provides a thorough presentation of the phenomena related to the transport of mass with and without electric charge momentum and energy It lays all the basic physical principles and then for the more advanced readers it offers an in depth treatment with advanced mathematical derivations and ends with some useful applications of the models and equations in specific settings The important idea behind the book is to unify all types of transport phenomena describing them within a common framework in terms of cause and effect respectively represented by the driving force and the flux of the transported quantity The approach and presentation are original in that the book starts with a general description of transport processes providing the macroscopic balance relations of fluid dynamics and heat and mass transfer before diving into the mathematical realm of continuum mechanics to derive the microscopic governing equations at the microscopic level The book is a modular teaching tool and is used either for an introductory or for an advanced graduate course The last six chapters are of interest to more advanced researchers who might be interested in applications in physics mechanical engineering or biomedical engineering In particular this second edition of the book includes two chapters about electric migration that is the transport of mass that takes place in a mixture under the action of electro magnetic fields Electric migration finds many applications in the modeling of energy storage devices such as batteries and fuel cells All chapters are complemented with solved exercises that are essential to complete the learning process

**Chemical Engineering Progress**, 2007 **Analysis of Transport Phenomena** William M. Deen, 2012-09-06 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

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