



Introduction to Transport Phenomena

William J. Thomson

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* Transport phenomena: Fundamental concepts and problem solving * Transport phenomena: basic principles and laws * Molecular and convective transport * Similarity analysis, transfer coefficients, and other key concepts * Use differential equation solvers to solve complex transport problems This book is a true introduction to transport phenomena that presents all basic principles with a minimum of mathematical complexity. Readers will only need to know the basics of differential equations, and how to use a differential equation solver such as Matlab or ACSL. 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. Thomson begins with a detailed introduction to molecular transport, including the basic underlying laws, one-dimensional molecular energy transport, molecular mass and momentum transport principles, and transport coefficients. Each major similarity analysis technique is covered, including dimensionless groups in molecular transport, dimensionless dif

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