



## Introduction to Transport Phenomena (Hardback)

By William J. Thomson

Pearson Education (US), United States, 1999. Hardback. Book Condition: New. New.. 229 x 175 mm. Language: English . Brand New Book. 45482-7 \* 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 differential transforms, and similarity transforms. In Part II, Thomson reviews convective transport, presenting a straightforward description...



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