



An Introduction to Mass and Heat Transfer: Principles of Analysis and Design

By Stanley Middleman

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This highly recommended book on transport phenomena shows readers how to develop mathematical representations (models) of physical phenomena. The key elements in model development involve assumptions about the physics, the application of basic physical principles, the exploration of the implications of the resulting model, and the evaluation of the degree to which the model mimics reality. This book also expose readers to the wide range of technologies where their skills may be applied.

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Bibliography

- Sales Rank: #724588 in Books
- Published on: 1997-10-21
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 10.28" h x 1.26" w x 7.20" l, 2.70 pounds
- Binding: Paperback
- 696 pages

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Editorial Review

From the Publisher

Designed for undergraduate and graduate level engineering courses, this authoritative text helps students to significantly expand their knowledge of heat and mass transfer. At its heart is a belief in the need for each student to develop and evaluate mathematical models based on numerous examples of experimental data. In the process, the author provides valuable exposure to the broad spectrum of engineering applications. A confidence-building volume that both teaches and challenges students.

From the Back Cover

For a Full Course on Transport Phenomena A companion text entitled An Introduction to Fluid Dynamics, written by the same author, is also available. Together, these two texts represent complete, consistent coverage of transport phenomena. Both texts:

- Focus on the development of a mathematical model as a central part of the analysis and design of an engineering system or process
- Teach students how to develop accurate mathematical representations of physical phenomena
- Present many examples of experimental data against which the model can be compared
- Expose students to the wide range of technologies which they may encounter in the future
- Provide a wealth of real world applications drawn from the author's years of experience as a consultant

Users Review

From reader reviews:

Mary Rohe:

Why don't make it to be your habit? Right now, try to ready your time to do the important take action, like looking for your favorite guide and reading a guide. Beside you can solve your short lived problem; you can add your knowledge by the book entitled An Introduction to Mass and Heat Transfer: Principles of Analysis and Design. Try to face the book An Introduction to Mass and Heat Transfer: Principles of Analysis and Design as your buddy. It means that it can to get your friend when you truly feel alone and beside that course make you smarter than ever. Yeah, it is very fortunated for you personally. The book makes you much more confidence because you can know every thing by the book. So , let's make new experience and knowledge with this book.

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